P&SN
POLICE AND SECURITY NEWS
The Information Source for Law Enforcement and Homeland Security
July/August 2012
Volume 28 Issue 4

Product Highlight: POLICE APPAREL & ACCESSORIES

Ready Positions

Handheld Biometric Technology

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Ballistic Armor Technology: What's New for 2012?

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Contents

July/ August 2012

EDITORIAL FOCUS: COMMUNICATIONS

28 New Social Media Surveillance Tools Provide Greater Capability
Rebecca Kanable
A new social media surveillance solution provides real-time monitoring of on-line communities, thus providing investigators with warning signs of credible threats.

48 Handheld Biometric Technology Offers Great Potential for Law Enforcement Applications
Ms. Katy Rasiak, Dr. Tod W. Burke and Dr. Stephen S. Owen
Handheld biometric technology integrates the mobility and versatility of a video camera equipped with recording audio recognition and facial capture technology.

SPECIAL REPORT

36 Body Armor Update: 2012
Christa M. Miller
The 19th Annual Report on the Latest Advances in Ballistic Armor Technology and Design

FEATURES

56 U.S. Night Vision's iPhone® Night Vision Adapter
Bill Siuru, Ph.D., PE
With this device, law enforcement professionals can now record – and then transmit – high resolution Gen Three images or video over any 4G network in any light condition.

59 Ready Positions
Dave Spaulding
Are you really "ready"?

62 Driver Distraction in Police Vehicles
Bill Siuru, Ph.D., PE
Research has revealed a number of recommendations which agencies can implement to reduce the risk of distracted driving.

COLUMNS

6 FOCUS ON TECHNOLOGY
8 ...AND NOTHING BUT THE TRUTH.
12 JUST ASK MIKE...
16 PRODUCT HIGHLIGHT
19 TACTICAL TRAINING TIPS & TOOLS
26 ABOVE AND BEYOND...
64 IN SEARCH OF INTELLIGENT LIFE
65 NEW TECHNOLOGY

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The rechargeable SureFire **R1 Lawman™ LED flashlight** features a maximum output of 750 lumens and head and tailcap switches which are user programmable. This dual fuel capable light also has the ability to run on either its included lithium ion battery or two disposable or rechargeable 123A cells.

The **Lawman**'s tactical tailcap switch activates the 750 lumen output – press for momentary on; twist for constant on. If programmed by the user to do so, pressing the tailcap switch rapidly three times will activate the high intensity strobe mode. A separate click type head switch lets you access three light levels: high (750 lumens), medium (150 lumens), and low (15 lumens).

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New Blue Dot Sight

The **SSCI-X1-B Mini Blue Dot Sight**, from SSC International, is the only Blue Dot Sight available to law enforcement and the military for nighttime operations and in low light conditions. The **X1-B** can be used on rifles, SMGs and shotguns and features both eye open aiming for greater target acquisition and a built-in mount for MIL-STD-1913 (Picatinny) rails.

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New Drop In Hand Guard

Weighing 5.7 ounces (without rails) and 6.6 ounces (with all rails), the **MI-17SS** (carbine length), from Midwest Industries, is a modular drop in hand guard which adds virtually no weight to a standard carbine. Constructed of 6061 aluminum with type three hard coat anodizing and polymer rail sections, its monolithic type continuous top rail is T-marked for accessory location. It has five antirotation QD socket locations for QD sling swivels and its modular side and bottom rail sections offer maximum flexibility for mission requirements.

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New Charging Handles

Mounting Solutions Plus and Armament Dynamics Industries, LLC have announced the release of three **new charging handles** for the AR-15, M-16, and M4 style of weapons. Two Ambidextrous-Dual Functioning (ADF) models are available in either a standard or extended action lever and the Universal Release Latch (URL) has a large, centrally located push tab. The wider handles and ergonomic shape are designed specifically for ease of movement and, once installed, eliminate all limitations of the operator being either right- or left-handed.

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New Thermal Imager

The **Optics 1® Clip-On Thermal Imager (COTI™)**, from Night Vision Depot, Inc., is a miniaturized infrared thermal device which has the ability to convert almost any ordinary night vision device (PVSA-14/7/BNVD) into a FUSION type system, combining the best aspects of thermal imaging with the best aspects of normal image intensified (I2) night vision devices. The **COTI** detects heat signals at up to 500 meters even with no natural light and can provide images through dense fog and smoke.

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New 2 MOA Sight

Aimpoint, Inc. has announced the addition of the **2 MOA Micro T-1** to their product line. The **Micro T-1** can be mounted on nearly any individual platform, including pistols; carbines; personal defense weapons; and submachine guns; and is also compatible with all generations of night vision devices. The **Micro T-1** is also ideal for use with Aimpoint's wide range of accessories including the 3X Magnifier and Concealed Engagement Unit (CEU).

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New Glass Assault Tool

XS® Sight Systems has taken the CSAT ARGAT™ (Glass Assault Tool) concept into the next generation by introducing the **WL-GAT™** (Weapon Light GAT) for the SureFire X200/X300® or Streamlight TLR weapon mounted lights. This tool is designed to breach glass in active response situations without taking your hands off your weapon. Slip fit on and no assembly tools are required. Instruction and demonstration videos are available.

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The Jimmy™

A new personal tactical pry bar was recently introduced by Broco. Made from heat-treated hardened steel with high density foam under a wrapped cord grip for comfort, the **Jimmy** has a striking surface at the back end and a lanyard attaching loop. The **Jimmy** has many uses including forcing open interior doors, windows, breaking glass and so on. It can also be used to get under the flange of a security door to make setting a Halligan easier. The tool is only 11" long and it slides into the Molle on a vest.

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New Reconnaissance Robot

The **Throwbot® XT**, from ReconRobotics, is a throwable, mobile microrobot which provides both audio and video reconnaissance of dangerous environments.

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New 12-Gauge Slug

The Brenneke® **Special Forces Maximum Barrier Penetration Magnum™** (MBPM) produces the deepest penetration of any slug on the market, penetrating windshields, wheel rims, tires, and engines. The **MBPM** has been tested by law enforcement and ballistic experts; provided complete penetration of Second Chance SC229 Level IIIA body armor at eight yards; and fully penetrated Threat Level II Kevlar® and 37.5" of FBI spec ballistic gelatin. The **MBPM** penetrated FBI glass at 45° plus an additional 31.25" of gelatin.

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New Assault Suit

The new one-piece, easy on/easy off **TRU-SPEC TRU XTREME™ Assault Suit**, designed for tactical units, uses two lightweight, breathable fabrics, including an optional fire-resistant 80/20 cotton Nomex® blend. Included are two slanted, bellowed chest pockets with a hidden zipper; reinforced SuperFabric® elbow and knee pockets; ventilated underarms; a mandarin collar which can be worn up or down; a two-way front zipper with a storm flap; an elastic waist; bellowed sleeve pockets and a detachable tri-pocket on the lower left sleeve; two flapped hip pockets; and two bellowed cargo pockets with hidden zippers.

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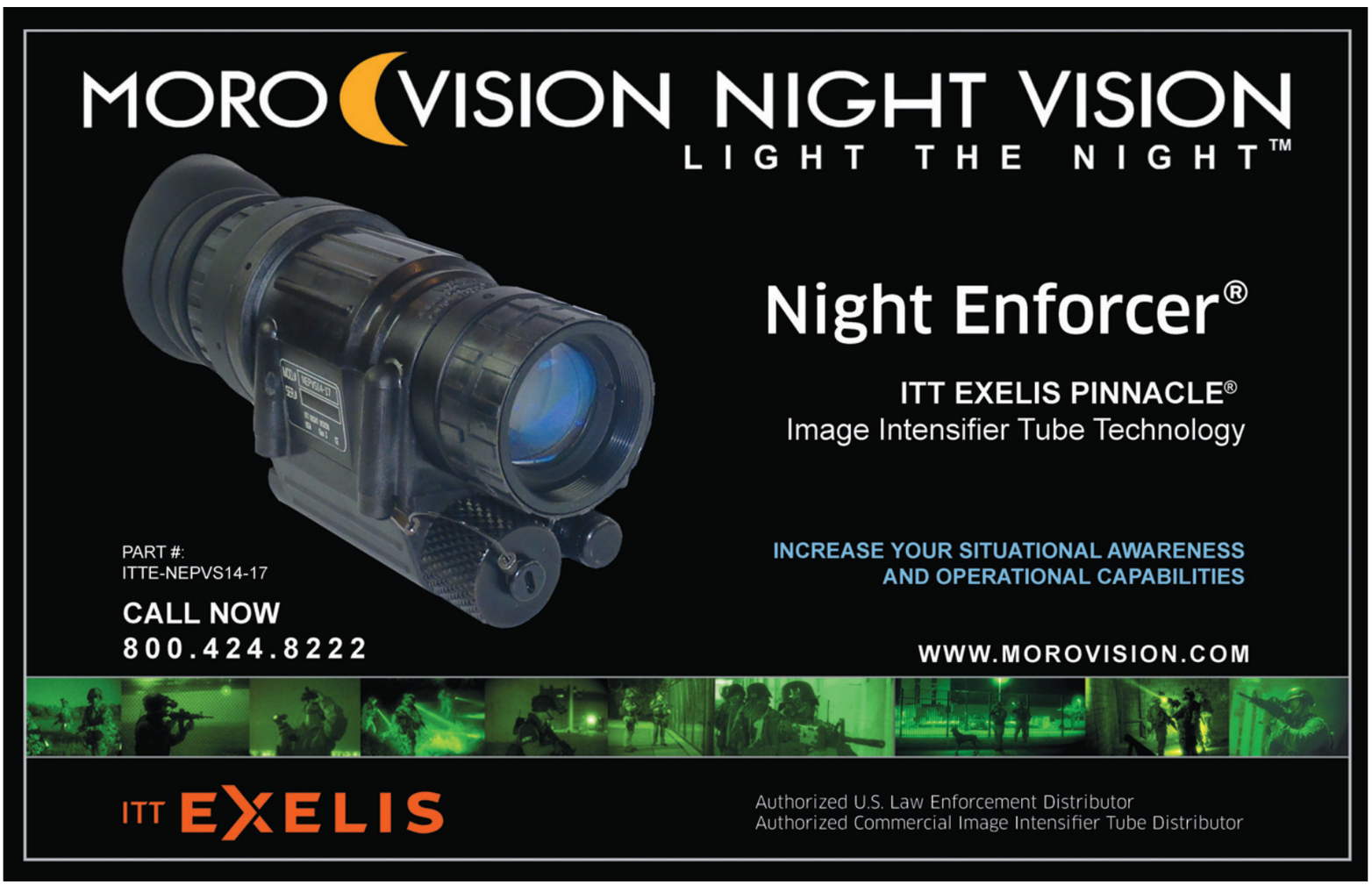

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Ramesh Nyberg

LIFE IN THE "LAND OF FLOWERS"

A few things you may not know about the "Sunshine State"

Florida is a bizarre place where bizarre things happen all of the time. I mean, really, where else do people get their faces chewed off? I'll try to recount some of these happenings for you.

Once upon a time, some very courageous (and very foolish) Spanish explorers went looking for the famed "fountain of youth." They didn't find it. They ended up in a very hot, swampy, mosquito infested place they named, "Land of the Flowers," or *Florida*. We really don't have lots of flowers here, but, apparently, the Spaniards ran into fields of them. Now, we import our flowers from Colombia. We import other stuff from Colombia, too, but we'll get to that later.

Anyway, Cortés, Ponce de León, and their compadres got into some nasty fights with the local Indians; got all kinds of horrific diseases they'd never encountered before; and wrecked a bunch of their gold laden ships on the jagged reefs along the coast. They were odd guys – maybe that was a positive.

"Let's stay!" the ones who survived said, and they established the oldest continuously occupied city in North America – St. Augustine. Without going into a detailed history of my home state, let me at least tell you that the original county seat of Dade County (where I live) was originally in Fort Pierce, about a three hour drive up the coast. The "founding fathers" of Dade County wanted it here, so they paddled up the intracoastal waterway, heavily armed, and raided the county building, stealing all of the records, deeds, and charter papers, and moved it south. It is rumored that alcohol may have played a part in their bravado. That incident, which left the officials in Fort Pierce scratching their collective heads, should have told them something about the future.

Okay, this historical foray is not what you signed up for when you started reading this, but I had to give you just a little background because Florida is a unique place. Since Ponce de León and his buddies came here and decided that hostile Indians and dengue fever were all in the fun of exploration, it seems like no one can stay away. Even my mom, who left India, and my dad, who left Minnesota, came here and put down roots.

Yes, we have wonderful weather (except June through September which is miserable) and great boating waters, and maybe that's what does it. It seems as though the most bizarre crimes, controversies, and noteworthy weirdoes end up on our fair peninsula.

You can track it back farther than 1961, but we'll start with the Bay of Pigs Invasion, a CIA backed attempt to overthrow Fidel Castro's new communist regime in Cuba. Naturally, almost all of the Cuban exiles involved in the failed effort were living in South Florida and the CIA trained them here in the Everglades. It wasn't long after that Khrushchev's missiles were pointed at us, most of them at Homestead Air Force Base, just a few miles from where I grew up, during what would become the "Cuban Missile Crisis." In South Florida, we practiced air raids and we all had to run and hide under our desks every day during drills when the sirens would fill the air.

Fast-forward a decade or so, and this guy named Theodore Robert Bundy starts killing women in Washington State. He would become the country's most notorious serial killer, but not before he ended his murderous spree in Tallahassee and Lake City, Florida.

Around the same time, the Colombian cocaine cartels started shipping their wares to the United States in overwhelming amounts and, by 1981, the resulting *tsunami* of white powder made South Florida the murder capital of the U.S.

In 1994, a famous football player named Orenthal James Simpson killed his ex-wife and her friend and led police on a wild chase on the expressways of California. What a lot of people don't remember, however, is that he was planning an escape to the Bahamas via – where else? – Aventura, Florida, where a friend of his had a party boat. In fact, that same friend owned a boat called "Monkey Business." Gary Hart, a onetime presidential candidate, saw his chances for the White House disappear on that vessel when he engaged in some monkey business of his own with

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a woman named Donna Rice. Its home port was Miami, Florida.

And, hey, speaking of presidential elections, what state would you pick if you're going to have a voting controversy of historical proportions? Yes, you guessed it. We are the only state to have two presidential candidates on the docket of the Florida Supreme Court in one of the most celebrated lawsuits anywhere.

Famous people and famous events just keep rolling on. Just as a side note: Texas sniper Charles Whitman was born here and so was mobster Santo Trafficante. The Doors singer Jim Morrison, who performed all over the world, picked a stage in Miami to expose himself to the audience and get arrested. Most of the infamous "Bermuda Triangle" is situated off the coast of Florida. Heck, I'm leaving out central Florida's house swallowing sinkholes, female serial killer Aileen Wuornos, several destructive hurricanes, and the 1986 Challenger space shuttle explosion. I'm also leaving out the 92-year-old woman who fired shots at her neighbor because he refused to kiss her and the eight-year-old girl who brought marijuana to her schoolteacher and announced, "Here's some of my mom's weed."

So, why wouldn't the nation's most riveting right to die issue, the Terri Schiavo controversy, take place in St. Petersburg, Florida?

Why wouldn't the very murder of a little boy, whose father started the show, "America's Most Wanted," take place here?

Where else would Casey Anthony and her family live, but here?

Where else, indeed, would a white/Hispanic guy have to shoot and kill a black teenager, make world news, and touch off a national debate about self-defense laws?

And, as if the shooting of Trayvon Martin wasn't enough, we get a naked cannibal, right in the shadow of the *Miami Herald* building, feasting on a homeless man's face. I'm not quite sure how you top this, but I think there are other states which, out of jealousy, are trying to compete. The very next day after the face eating attack, a guy in New Jersey disemboweled himself as police arrived at his house and he started throwing bits of his intestines and flesh at the officers.

How do you eat a person's face? How do you cut yourself open and start slinging chunks of your innards – and *survive*?

The answer might be this whole "bath salts" craze. Just so we could make sure we were still in first place for the horror Olympics, Florida weighed in with another bath salts case, of a naked guy in a park who approached a three-year-old girl and started making obscene comments. Why couldn't *he* have been the one to have his face gnawed off?

Look, don't get me wrong. We have a lot of great stuff here in the land of the flowers, too. Lots of people keep coming here and, for some reason, I've never left.

But, there's no question that we have the market cornered on the gruesome and insane.

Summer's here and the bath salts are flowing. Stay tuned. P&SN

About the Author: Ramesh Nyberg retired from law enforcement in November 2006. He spent 27 years in police work in South Florida, 22 of those years in homicide as an investigator. He has taught homicide investigations and interview/interrogations at the local police academy. He now teaches criminal justice classes at a Legal Affairs Academy program in a magnet high school in Miami. His students frequently read the copies of Police and Security News *he brings to the classroom.*

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Just Ask Mike...

Michael Carpenter

YOU HAVE THE RIGHT TO REMAIN PORTLY

How should an officer approach a coworker about losing weight and getting into better physical condition?

Dear Mike,

I work in a large city police department in the South. I've been on the job for six years and work the midnight shift. It is a really active shift – we make a lot of arrests; we get into a lot of altercations; we get into a lot of foot chases; and, generally, we have a lot of fun! We tend to rely on each other for safety – we all know that and we all feel a responsibility to protect each other. Almost every shift, we all get to the station about an hour early and meet in the exercise room to work out. It is good for the shift, it's good for team camaraderie and it's good for our health and safety.

However, we've got a problem with one of the guys who just transferred to our shift. He came in from working day shift in another part of the city where it's very quiet and nothing ever happens. He's seen more action in the two weeks he's been on our shift than in three years of working day shift in the other precinct. Here is our problem – he is overweight and out of shape. He looks very sloppy and unprofessional in his uniform and you can't let that happen when you're dealing with the type of people with whom we deal. He was in a foot pursuit the other night and he couldn't run more than half a block – and the bad guy got away! We got into a minor altercation at a bar fight last week and the whole bar was staring at him because he was huffing and puffing so loud that he had trouble taking a drunk into custody. This can't go on. Someone (like me or him) is going to get hurt.

I mentioned to him last week that we all get together before shift to exercise, but he blew me off saying that he wasn't going to donate any free time to the department – if they wanted him to work out, they'd have to pay him. Our department doesn't have mandatory physical fitness standards, but even the village idiot knows that the better shape you are in, the better you can do your job! It can keep you safe – it can keep your partner from getting hurt – it's one of the best stress relievers – and it can prolong your life!

So, our problem is: How do we convince the new guy that he'd better drop 40 pounds and get in shape before somebody gets hurt?

The official answer is that you can't officially do anything. Without a department policy and without the support of your bosses, you can't make a cop get into shape. In fact, unless you signed up for the military, no one can make anyone get into shape.

So, your problem now becomes: How do you convince your new arrival that it is in his best interest to get in shape. First, it is very difficult for someone who does not have a weight problem to tell someone who does have a weight problem that they should lose weight. Some people are overweight because of a medical condition; some people are overweight because of heredity; some people are overweight because they use food as a crutch (the way some people use alcohol or drugs). I'm not going any further down this road because there are a lot of people a lot smarter than I am in the medical field who have been trying to solve the problem of weight gain for many, many years.

Now, the other problem is trying to get your new arrival in better physical condition. Right off the bat, if this guy is out of shape and overweight, he will probably not want to go to your preshift workout where a bunch of guys who are in shape are getting jacked up for their shift by throwing a lot of weights around. Although you may not be able to relate, he's probably intimidated or embarrassed. By pushing him to join the preshift workout, you are only pushing him further away. The more the shift pushes him, the more likely he is to resist.

How about using a different approach? Stop pushing and start encouraging – not as a group, but maybe one-on-one with another officer with whom he trusts and gets along. Maybe he needs a mentor – someone who is willing to work with him very slowly to start the long process of getting him into shape. Maybe the place to start is just a half mile walk every day. Then, maybe the following week add some easy stretching. The week after, do the walk, stretches and walk five flights of stairs. He needs someone who has a background in kinesiology or personal training who knows the physical and mental aspects of a very slow (but steady) approach to get someone into shape. Your new crewmember needs support, not ridicule.

It may happen that he will also be encouraged to get into shape if he sees the importance of it to perform his job better. Don't automatically think that every cop out there believes that the better shape that you're in, the better you can do the job. If that was the case, every cop in the country would be lean and in great shape.

Police officers have a lower average life expectancy, a high risk of many medical conditions and a high level of stress. Now, you and I know that one of the best ways to solve these problems is through regular physical exercise. That should be enough of a motivator for cops, but it's not.

Dear Mike,

I recently had a pretty bad experience when I took the sergeant's promotion test and I am looking for some ideas on how to handle it. A couple of months ago, a lot of the guys took the written test for sergeant. I did pretty well and finished in the top five (out of about 50 who took the test). The written test counts for 60 percent of the final grade and the oral board counts for the other 40 percent. The department arranged for some

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command officers from other agencies to sit on the panel.

I did some prep work for the oral board and was feeling pretty good as I entered the room for the interview. The panel consisted of an older captain from a county sheriff's department (not the one my agency is in) and a young lieutenant and a young sergeant from municipal departments in a nearby county. Clearly, the older captain was the dominant force on the board and the others were merely taking up space. As I sat down, the captain's first comment to me was, "So, you're the guy with the master's degree?" I had recently completed my degree while working full-time, so I responded (very professionally), "Yes, sir, I completed it last year and may start working on my doctoral degree next year." Well, I guess that was the wrong thing to say because he immediately jumped out of his chair (literally, it fell over as he jumped up) and he went into a rage. He screamed at me, "Well, excuse me, Doctor! How about this – I got to be a captain in my department and all I've got is a high school diploma! What do you think of that, college boy!" The rest of the oral board interview went downhill from there. This captain was apparently on a mission to find something wrong with everything that I said and berate me every chance he got. The other two board members barely spoke. Needless to say, I failed the oral board so badly that my ranking dropped so low on the sergeant's list that I'm out of the running.

Why would this captain be out to get me? Is it just because I have a college degree and he doesn't? Is he allowed to be that biased? What recourse do I have?

It's hard to believe that, in the year 2012, a professional police manager would have a negative opinion about another officer who has a college degree, but... However, there may be some another reason why your oral interview went the way it did.

I'm not sure what your experiences have been with oral boards, but there is usually a plan each panel has before they begin. Sometimes, they are warm and fuzzy and, sometimes, they are hard-core and nasty. Sometimes, all board members are equally involved and, sometimes, it's more of a one-on-one which allows the other panel members more time and opportunity to observe you. Sometimes, they intentionally push a candidate aggressively and, sometimes, they let the candidate do all the talking. (In some ways, it is similar to the preplanning which you might do with another officer if you were interrogating a suspect.)

Obviously, I don't know how things were arranged or what their plan was, but if the intent of the board was to get you off balance and see how you react in a negative environment, then it sounds like they were successful. Maybe the captain's crazy act was intentional. Maybe the intent was to get you off track and see how you react. Maybe you didn't react as well as you think. I'm sure that you have already talked to some of the other officers who went through the interview process. Was it hard-core and nasty for others? However, even if other officers had a warm and fuzzy experience, it doesn't necessarily mean that the board was out to get you.

What recourse do you have now? Can you request specific information about the testing process through your human resource department? For example, many agencies use a set of standardized questions for all candidates to try to be fair and objective. Was that the case in your selection process? Usually, there are five or six specific categories on which each candidate is rated. Can you get specific information about how the panel members rated you? (In other words, what were your strengths and weaknesses.)

You failed to mention if anyone from human resources or the personnel department was present for the interviews. It is not a requirement, but many agencies do bring in someone from human resources to make sure that the process is running according to standards and practices. If your interview panel violated personnel policies and practices, then perhaps you have a legitimate grievance. If your panel evaluated you unfairly and if the captain failed you just because you have a college degree, then you have a right to be upset. If this is the case, then you have some legal recourse and you may consider consulting with a lawyer with expertise in personnel matters and human resources.

About the Author: Mike Carpenter has been on the police side of criminal justice for more than 25 years. He started out as a city cop and then went to a state police agency (trooper, detective and patrol sergeant). After that, he worked for the New York State Police Division of Criminal Justice as a police training specialist.

Currently, he teaches criminal justice courses at a college in upstate New York. He has two master's degrees; has been a certified police trainer for more than 20 years; has written numerous articles; and operates a police management consulting business (www.policemanagement.com).

Mike Carpenter has the background and experience to help answer questions and solve problems. If you have a question relating to law enforcement, and you don't know where to go for an answer, then just E-mail Mike at **mcarpenter@policemanagement.com.** Mike Carpenter respects the privacy of all those who make inquiries.

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Product Highlight

Police Apparel & Accessories

BLAUER MANUFACTURING

Blauer's **ArmorSkin**™ external vest carrier converts ordinary concealed armor into an outer vest. The undercover vest, carrier and all slides into the "skin" which attaches at the sides with a two-way zipper. **ArmorSkin** is made using Blauer shirting material. A **StreetShirt**™, made with wicking mesh, is worn under the loaded **ArmorSkin**. When combined, the **ArmorSkin** and **StreetShirt** look like a typical police shirt. **ArmorSkin** fits all conventional concealable body armor.

Circle 4027 for More Information

UNCLE MIKE'S®

The **Reflex** holster for the new Smith & Wesson® M&P SHIELD™ features the exclusive Integrated Retention Technology (I.R.T.) which securely retains the firearm by combining a retention lug on the outer wall and a press arm on the body side of the holster to allow users to easily draw a firearm. Constructed with injection molded, impact modified polymer, the **Reflex** holster includes a paddle attachment and pancake style belt loop to fit belts up to 1.75" wide. The holster fits both the 9mm and .40 caliber S&W M&P SHIELD.

Circle 4028 for More Information

OFFICERSTORE.COM

The **Elbeco V1 TexTrop External Vest Carrier** is now available at OfficerStore.com and it allows officers to wear body armor over their uniform shirt without compromising performance or sacrificing professional appearance. The **V1 External Vest Carrier** is a cosmetic outer shell intended to house the wearer's current vest in its original concealable carrier. The external vest carrier fits most carriers on the market today where front and rear carrier assemblies separate at the shoulder and have either hook and loop or adjustable strap mechanisms.

Designed to identically match the Elbeco TexTrop shirts, this vest is available in nine colors and 17 different sizes. The **V1** blends in seamlessly with an officer's uniform shirt, making it virtually undetectable even at very close range.

Circle 4029 for More Information

MAXPEDTION HARD-USE GEAR

The Maxpedition **Sneak™ Universal Holster Insert with Mag Retention** is an adjustable holster designed to fit most popular handgun sizes, as well as securely accommodate other items, such as tools, laptop power supplies, and similarly-sized objects. The **Sneak**'s design and hook field backing allow for various attachment layouts to any interior loop surface or concealed carry weapon compartment in Maxpedition bags and packs.

Circle 4030 for More Information

CONDOR OUTDOOR PRODUCTS, INC.

The **Tactical SUMMIT Soft Shell Jacket** is designed with three layer, integrated shell/fabric technology. The breathable shell wicks moisture from the body and prevents water penetration while maintaining body heat. The **SUMMIT Jacket** features a tug away hood and multiple pockets for storage. The **SUMMIT** is available in OD, black, tan, navy, or foliage and in sizes from XS to XXXL.

Circle 4031 for More Information

UNDER ARMOUR

Perfect for everyday duty or hard-core range time, the **TAC Duty Pants** were designed to deliver the comfort, durability and performance which can only be expected from Under Armour. Constructed of durable ripstop material and protected by a Durable Water Repellent (DWR) coating, the **TAC Duty Pants** will withstand the rigors of daily use while protecting you from the elements. Features like hidden document pockets, secure cargo pockets with internal magazine compartments, and an adjustable waist ensure top functionality for every situation.

Circle 4032 for More Information

BROWNELLS

Brownells LE/Defense/Security Division has announced a new **line of high performance, warm weather apparel** from well respected brands including 5.11 Tactical®, TRU-SPEC®, and Woolrich®. Designed specifically with the unique needs of hardworking law enforcement professionals in mind, the summer line features short-sleeved shirts and shorts, for duty and concealment, in a number of different sizes, colors, and styles for men and women

Circle 4033 for More Information

TRU-SPEC® BY ATLANCO

A brand-new, lightweight 4.25 ounce, 65/35 polyester cotton, ripstop material is being used in two shirts from the 24-7 Series® from TRU-SPEC. The redesigned **Ultralight Uniform Shirt** can be worn either tucked into a matching pair of 24-7 Series pants or untucked as an off duty, casual shirt. With its hidden button-down collar and dress-style shirttail, the **Ultralight Field Shirt** is suitable for nonuniform wear, but the bellowed front pockets and yoked back make it a perfect on duty shirt as well. Both are available in four colors, with long or short sleeves, and with an optional epaulet/badge tab kit.

Circle 4034 for More Information

STRONG LEATHER CO.

Since 2006, all passports and many credit and debit cards, enhanced drivers' licenses, and law enforcement credentials contain a RFID (Radio Frequency IDentification) chip embedded in them which makes this information vulnerable to identity theft. The **RFID Shielding Leather Wallets** have been developed and tested to protect against this type of identity theft which is the unauthorized RF scanning of personal and departmental information contained in the embedded chip. The lining material used has obtained FIPS (Federal Information Processing Standards) 201 approval and is recognized by the GSA as an accepted shielding product for use by the US government.

Circle 4035 for More Information

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The **New York Undercover™ Holster** is the holster only component of this classic shoulder rig and is custom molded to perfectly fit your firearm.

The **New York Undercover Shoulder Rig** is handcrafted in the USA from premium top grain cowhide and is shipped fully assembled with a double ammo carrier. The harness fits up to a 54 inch chest and pivots at all four junction points.

The **C.E.O.® Shoulder Rig** allows for easy draws when necessary. One single swift motion is all it takes to put the firearm into action.

Circle 4036 for More Information

LIBERTY UNIFORM MFG. CO., INC.

The **#788** knit shirt is available in black, navy, and white. This fabric manages moisture and is antimicrobial. The shirt features three microphone attachment areas; a longer back shirttail with side vents; pen pockets on each sleeve; and an extralong body length.

The **Class A** style shirt is COOLMAX® certified for maximum moisture management. It is a perfect match to their #640 four pocket or #641 COOLMAX cargo pocket trousers. This Burlington fabric has micro-denier yarns for softness and stretch, and offers 40+ UPF ultraviolet sun protection.

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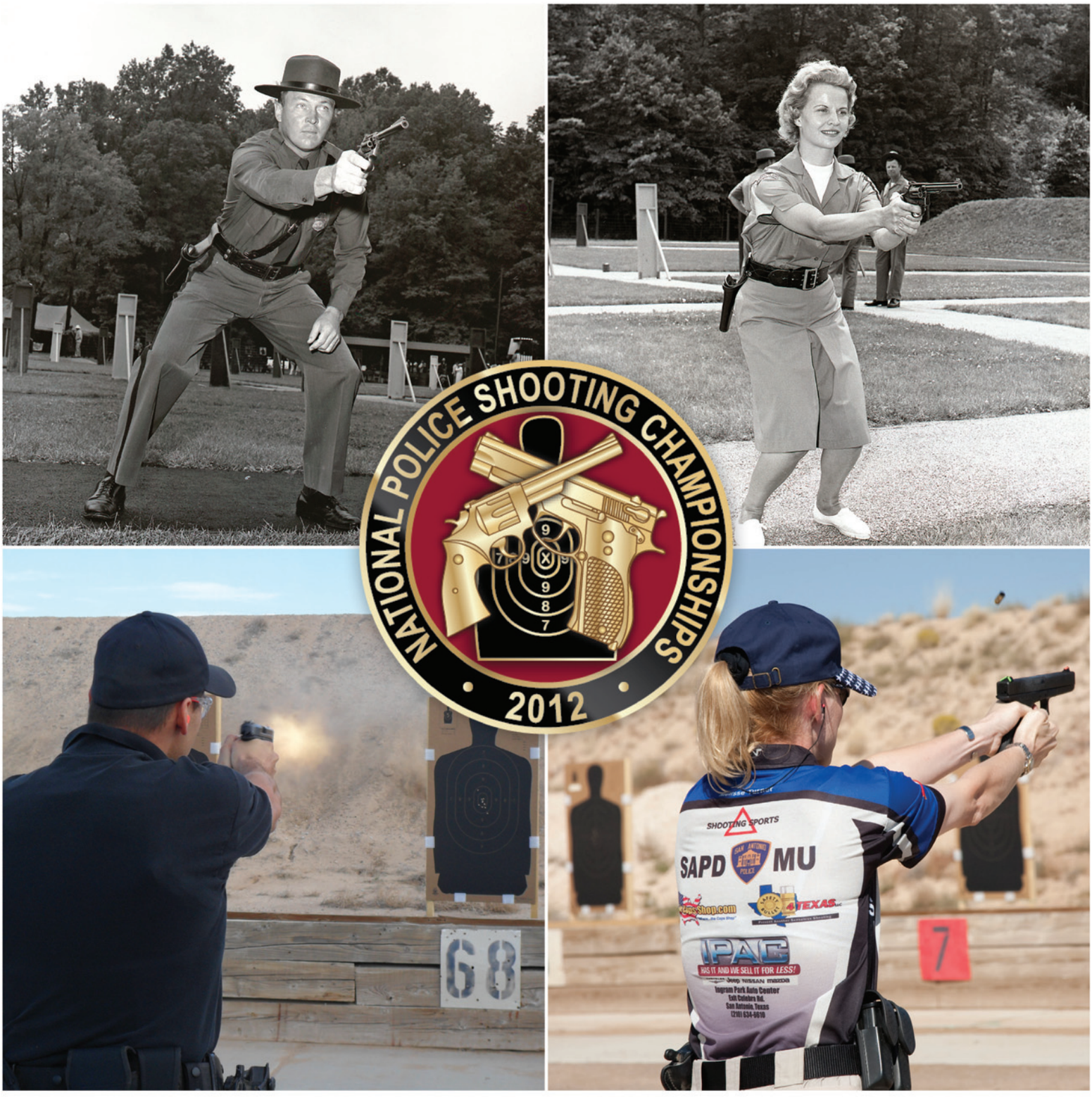
Circle 4038 for More Information



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Walt Rauch

THE NEW SMITH & WESSON® M&P SHIELD™ POCKET 9MM

Smith & Wesson gets it right!

The M&P SHIELD, a semiauto, striker-fired, polymer and steel pocket pistol by Smith & Wesson, should be a winner. I liked the gun from the time I first handled it right through two range sessions, with about 200 rounds of mixed brand, bullet weights and power 9x19mm ammo (fired by Irv Gill, Ted Murphy, Joe Mulligan and me). Ted holds multiple Master Class ratings in the International Defensive Pistol Association (IDPA). Irv and Joe, who rarely compete in IDPA matches, are ranked Sharpshooter, and are quite skilled with the defensive use of either a semiauto or a revolver.

There were no malfunctions caused by either the gun or the shooters. Furthermore, all of us agree that the gun simply feels good in handling and shooting. For me, I see that, with the M&P SHIELD, S&W strikes all the right notes – those necessary and those desirable – without adding any baggage.

Features

The M&P SHIELD is a 19 ounce, striker-fired, semiauto chambered for either 9x19mm or .40 S&W and holds seven or eight rounds of 9x19mm and six or seven rounds in .40 S&W. The stainless steel slide and 3.1" barrel have the Melonite® treatment and are black in color, as is the polymer frame and all small parts. The frame width is .95" with a slide width of one inch. The overall length is 6.1" while its height comes in at 4.6". The MSRP is $449.

There's a manual thumb safety at the top left side of the frame, with the takedown lever above the trigger guard. The slide catch is rearward of this and the magazine catch is behind the lower rear of the ample, rounded trigger guard.

The SHIELD uses a staggered cartridge design which allows more capacity at the (minimal) cost of a slightly wider frame, but still keeping the frame's length as short as possible. Two magazines are supplied – one flush fit (seven rounds) and the other having an extended body (eight rounds). Both have identical removable polymer base plates. The extended magazine wears a polymer "collar" which fills the otherwise open area of the magazine where it protrudes from the frame. The collar is a press fit. There are witness holes on both sides of the magazine bodies, numbered three to seven or three to eight.

The top of the slide is flat with rounded edges. A visual loaded chamber indicator is countersunk into the rear of the chamber hood and the forward upper edge of the breech face. S&W terms this the "Type 1 Indicator." There's also a "Type 2 Indicator" which is a similarly positioned moveable arm which raises above the slide when a cartridge is chambered. The reason for the two different types is that some states mandate a tactile loaded chamber device. Such laws sometimes also require a magazine disconnect which is provided where such laws apply. These were not present with this sample.

The one side only operating controls are easily manipulated. Note the articulated trigger (drop safety).

Sights

The three white dot sighting system affords a good sight picture. Sight adjustment is done with the front sight and for windage only. The sight must be moved laterally in its dovetail slot. The rear sight body is shaped to allow snag-free removal from a pocket, a purse or a holster and the square sight notch, coupled with the squared up front sight, allowed for good sighting. The gun has a sight radius of 5.3".

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The three white dot sighting system provides enough "sight" for close-in defensive use.

The ejection port is open across the top of the slide and almost completely down the right side. An ample external and spring-powered extractor sits at the lower right rear of the port. Six scalloped and forward leaning grasping grooves are beneath the rear sight area. A passive firing pin safety is also in the slide.

The slide is of two thicknesses, with the upper, more narrow portion running from the top to almost the bottom edge. This narrow area extends back to just above the frame mounted slide catch. The lower forward edges of the slide face are angled inward which helps in holstering the pistol. The striker retaining back plate is nicely pebbled, reducing thumb slippage if you are trained to press on the rear of the slide while reholstering.

The slide's left side is marked *M&P 9 SHIELD* up-front and has the S&W logo at the rear, just forward of the six scalloped and diagonal grasping grooves. Roll marked on the right front side is "Smith & Wesson, Springfield, MA USA." The white lettered warning, "CAUTION CAPABLE OF FIRING WITH MAGAZINE REMOVED," is beneath the ejection port. The caliber designation of 9x19mm is stamped "9MM" on the chamber hood. The gun's serial number is at the top left of the grip area of the frame.

Controls

On the frame, as previously mentioned, there are three operating controls – the horizontally grooved disassembly lever, the slide catch and the manual thumb safety – on the upper left of the frame. Well worth noting, the manual thumb safety can be activated even with the trigger pulled and not reset. The M&P SHIELD can be disassembled and reassembled with the manual safety in either position. There is no visual indicator of the safety's status. The ejector is on the lower left side on top of the frame. The slide travels on four rails or metal inserts which are part of the trigger group.

The trigger reset is short compared to others of this type. There are two "clicks." The first occurs right as you ease up on the pulled trigger; then, the second and much more distinct click is heard and felt as the trigger is allowed to go further forward. This is the striker and sear resetting. Another shot may now be fired without any further forward trigger movement.

The trigger is a pivoting design and is in two sections – upper and lower. The two are part of the drop safety (often referred to as a trigger safety); the purpose of which is to prevent the gun from discharging if dropped on a hard surface. In use, when the trigger is pulled when firing which entails moving the entire trigger, the operation of the safety system goes unnoticed. Factory specifications show trigger pull weight at +/- 6.5 pounds (more on this later).

Grip

The oval and inward sloping magazine catch is at the lower rear of the trigger guard. S&W points out on its Web site that the M&P SHIELD grip angle (slide to frame) is 18 degrees. The gripping areas are all nicely pebbled. The front and backstrap pebbling is carried over in an arc onto the sides of the frame, on the tip of the magazine catch and onto the lower rear area of the trigger guard. Stippling has even been done to the rear of the collar spacer used on the extended magazine. (Such attention to detail which greatly adds to providing an excellent gripping area is usually only gotten from a custom 'smith.)

The grip area has matching thumb or finger grooves which allow your trigger finger to move closer inward for easier trigger manipulation, as

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A look into the countersunk opening at the rear of the chamber can show you if a cartridge is chambered.

well as serving as a guide for your gripping hand thumb to more easily establish and maintain a solid shooting grip. The concavities also rise up going forward. This raising on the left side then also surrounds most of the magazine catch body to help prevent accidentally depressing the catch.

The backstrap is extended so that, when the flush plate magazine is locked in the gun, the extension supports the rear of the base plate which then increases gripping area. This allowed me to take a cramped, almost three finger grip on the gun – along with more of my palm being supported as well – and definitely helped control muzzle flip.

The S&W M&P9 SHIELD™, disassembled

Apart and Back

Disassembly and reassembly of the M&P SHIELD are simple and quite well explained and illustrated on pages 21 through 25 of the supplied instruction manual. The same information for the magazine is on page 27. The quick version is, after insuring the gun is unloaded, lock the slide back. Then, looking down into the ejection port and below the ejector and left side of the breech face (slide directed away from you), you should see a bent, narrow, flat bit of yellow colored metal pointed upward along the back wall of the frame. This is the Sear Deactivation Lever. With a small tool (or your finger, if it will fit), push this lever forward to a horizontal position. Next, pull back slightly to release the slide catch and simply move the slide assembly forward and off the receiver. The slide assembly comes off without resistance, since the captive dual recoil spring needs no compression while doing this. The spring does need only slight compressing to lift it off the barrel which then comes out down and to the rear of the slide. Reassemble in reverse order while noting that you don't have to fumble with the Sear Deactivation Lever to move it back into place, as inserting a magazine does so.

Very important is how and where to lubricate the gun. Seven drops of oil are all that is needed. Illustrated instructions for this are on page 24. (NOTE: The striker channel should be as dry and oil-free as possible.)

Range Results

Ted and I met to run the M&P SHIELD at a local gun club. Ted was greatly interested, as he's been examining pocket 9mms for hot weather use, while I was somewhat apprehensive. My concern was what sort of accuracy I'd get because, when dry firing the gun, I found I had to very much "lean" on the trigger just as it hit its break point. The trigger pull measured at 8.25 pounds using a Chatillon gauge. Take-up was not a problem, but trigger overtravel looked to be, despite the fixed overtravel stop within the trigger guard.

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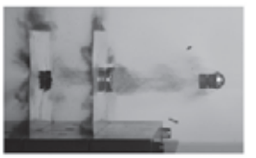

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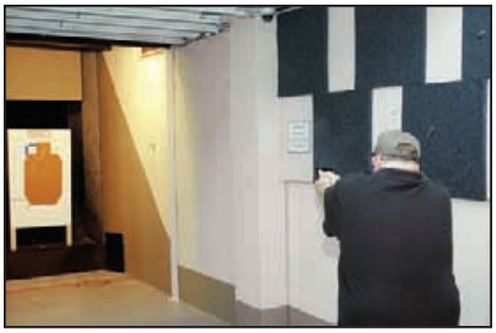

Ted Murphy manages to get three empties in the air! Fast to be sure, but accurate as well.

Ted and I used Winchester® White Box 115-grain FMJ and Federal Premium® 147-grain HP Hydra-Shok® ammo. Circumstances were such that we had to shoot at 12 yards. We shot seated with arms supported on the shooting bench. I found my sights snapping left or right or both with the same shot. That's not good for accurate shooting – and it wasn't.

I kept getting two or three hits together, then two or three shots wide left or right. Finally, I had one group of 2 5/8" using the Winchester 115-grain FMJ ammo and called it quits. Ted took over and using the Federal 147-grain Hydra-Shok ammo started well, but stacked his hits vertically, with his best group measuring at 3 1/4". We both called it a day. He commented that the white dots in the sights were distracting. I asked about the trigger weight and trigger overtravel. He said they were a bit bothersome, but manageable. The sights or, more correctly, the white dots in the sights were the problem. Normally, I black them out (I find blacking out the rear two dots helps in precision shooting), but didn't this time as I hadn't taken any photos of the pistol and didn't want to mess up the nice white color of the dots.

Later, while setting up to take the photos, I checked the trigger pull results one more time and was surprised to find the pull weight now at an even seven pounds. A few days later, after doing the studio work, I went back to the range, this time with the rear white dots blackened. I also met with Irv and Mulligan and asked for their take on the new gun.

Back Again

This time, we were able to set up at 15 yards. Initially, we shot up a mixed bag of ammo, including Remington® and Federal 115-grain JRN, some PMC 124-grain JRN, Remington 147-grain Bonded JHP Golden Saber™ and Irv's 124- and 147-grain JRN lead and 124-grain JHP reloads. My best group was five rounds into two inches at 15 yards, of which I was quite proud for a few minutes – until Joe, using some of the Winchester White Box 115-grain loads, put seven rounds into

Top left and right targets: Results at 12 yards. Lower target: Results at 15 yards.

a three to four inch group at the same distance using the head box of a Warren IDPA training target as his aiming point and did so shooting two-handed and standing. Irv then quietly filled the extended magazine with his lead reloads and overlaid Joe's hits with eight rounds. They both commented favorably on the SHIELD.

Later, I again measured the trigger pull which now breaks at the factory specified 6.5 pounds. It appears that while this sample 9mm SHIELD did not need a break-in period (nor is such recommended by S&W) and we had no malfunctions, its trigger pull certainly benefited.

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Does Evidence-based Policing Really Work?

Little evidence for evidence-based policing programs has lawmakers wondering whether the programs are worth funding. At the recent Jerry Lee Crime Prevention Symposium, seven panelists – including a former Seattle police officer, three criminologists, a Senate Judiciary Committee adviser, and the director of the Justice Department's Community Oriented Policing Services (COPS) grant program – talked about how few evaluations are conducted on crime prevention programs and how economic challenges, taxpayer demand for accountability, and changes in police service delivery could affect programming.

NEWS

One panelist, a criminologist, expressed the belief that useful academic research was in short supply, making it harder for agencies to justify their work. Another said that community policing itself has been shown to improve only citizens' sense of well-being, not crime numbers themselves.

On the other hand, some studies have shown measurable (if limited) impact on numbers. Sacramento police noticed drops in both serious crime and calls for service where officers visited "hot spots" for 12 to 16 minutes at intervals over time, while a British study noted that research on electronic monitoring of offenders showed a measurable (if limited) impact on recidivism.

Circle 4048 for More Information

Circle 4046 for More Information

Circle 4047 for More Information

New Laser for the S&W M&P SHIELD™

The **LaserLyte® UTA-SH** laser for the Smith & Wesson® M&P SHIELD™ mounts easily and quickly on the M&P SHIELD's trigger guard and snugs up securely to the dustcover. The ambidextrous, ergonomic switch makes it simple to activate. The laser is easily programmable to either constant on or pulse mode. The auto off feature displays a unique flash after five minutes of use and automatically turns the unit off after six minutes. In actual usage, the battery life lasts ten hours in constant on and 20 hours in pulse mode. It is made of 30% glass filled nylon and steel mounting hardware.

Circle 4050 for More Information

Chronograph Results – S&W M&P9 SHIELD™

The following results were obtained using a Master Gamma Chrony® chronograph at 300 feet above sea level, with an ambient temperature of 70 degrees. Pistol: S&W M&P9 SHIELD, caliber 9x19mm, 3.1" barrel, serial number DXP1107. Five shot average.

Ammunition	Velocity (fps)	Standard Deviation
Federal Hydra-Shok® 147-grain JHP	927	7.8
Hornady® 124-grain JHP/XTP	1013	6.6
Winchester® 115-grain FMJ	1042	15

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Final Thoughts

I think – in fact, I'm 99% sure – the S&W M&P SHIELD is a winner. The final testing will be to shoot lots of rounds and see what, if anything, fails, stops, won't work or falls off before crowning the SHIELD (talk about mixing metaphors). My best guess is the worst that will happen is a cross pin or two will "walk" due to frame flex from recoil, as such pins sometimes do in other existing polymer frame pistols.

In hindsight, when Smith & Wesson chose to label its fixed sighted K-frame revolver "Military and Police" (more commonly now known as "M&P"), it was farsighted to be sure, as the military and the police overwhelmingly chose it for a good portion of the 20th century. Dubbing this new M&P pistol "SHIELD" so, too, indicates its audience and purpose – the legally armed, for personal protection. PSN

About the Author: Upon receiving his BS degree from Carnegie Tech and completing service as a Special Agent in U.S. Army Intelligence, Walt Rauch was a Special Agent with the U.S. Secret Service and an Investigator with the Warrant Unit, First Judicial District, PA.

Rauch is also a writer and lecturer in the firearms field. He is published regularly in national and international publications.

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Circle 4054 on the Reader Service Card

THE S&W M&P9 SHIELD™
Technical Specifications

Model:
M&P9 SHIELD™

Caliber: 9x19mm
(Also available in .40 S&W)

Capacity: One magazine with 7 + 1 round capacity/one magazine with 8 + 1 round capacity. (Both with removable polymer base plate. Spacing collar with 8 + 1 magazine.) Both magazines supplied.

Action: Striker-fired

Barrel length: 3.1"

Overall length: 6.1"

Height: 4.6"

Frame width: .95"

Weight (unloaded): 19.0 ounces

Front sight: White dot/windage adjustable

Rear sight: Fixed with two white dots

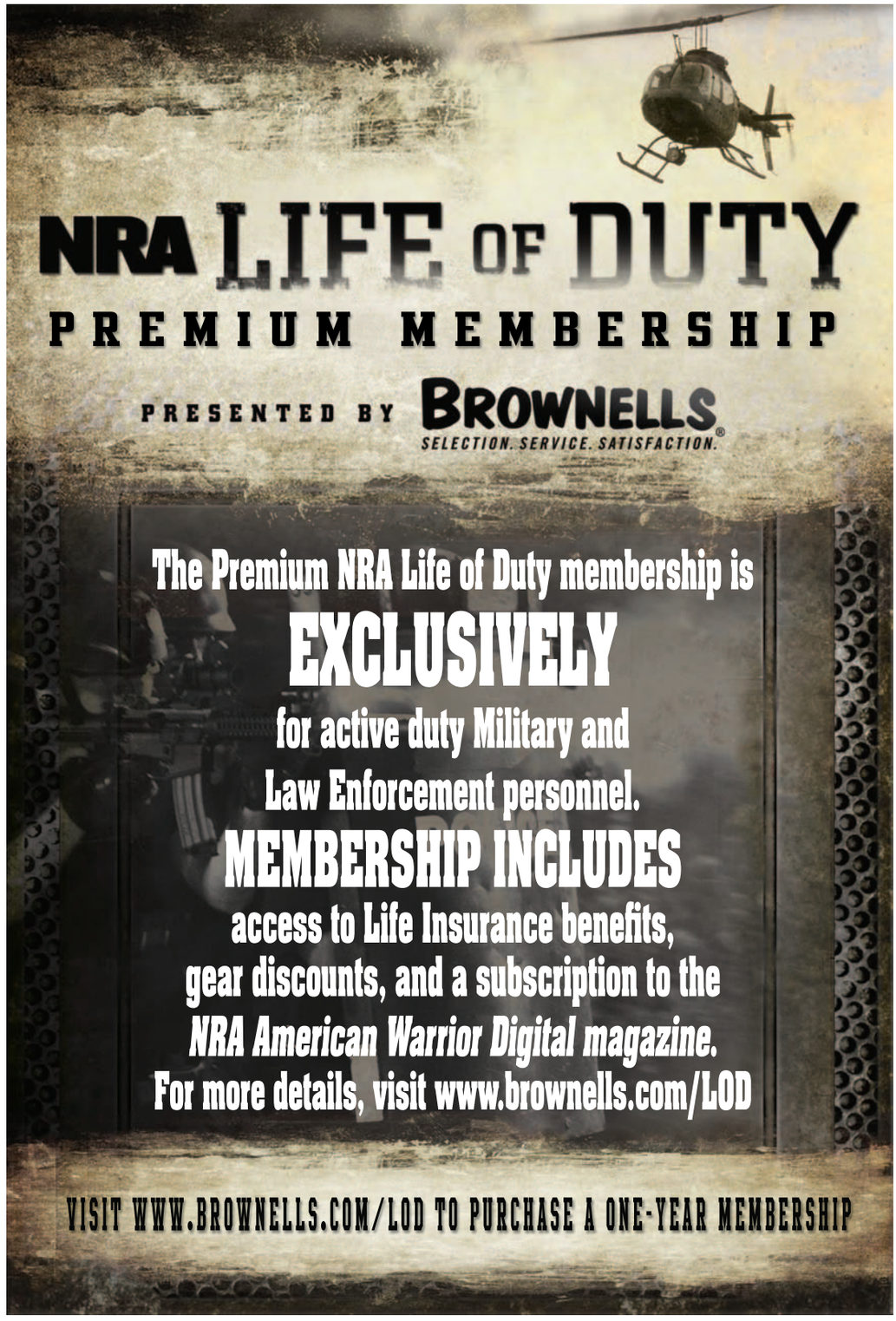
Trigger pull: 6.5 pounds +/-

Frame: Polymer

Barrel/slide finish: Black Melonite® 68HRc

Sight radius: 5.3"

MSRP: $449.00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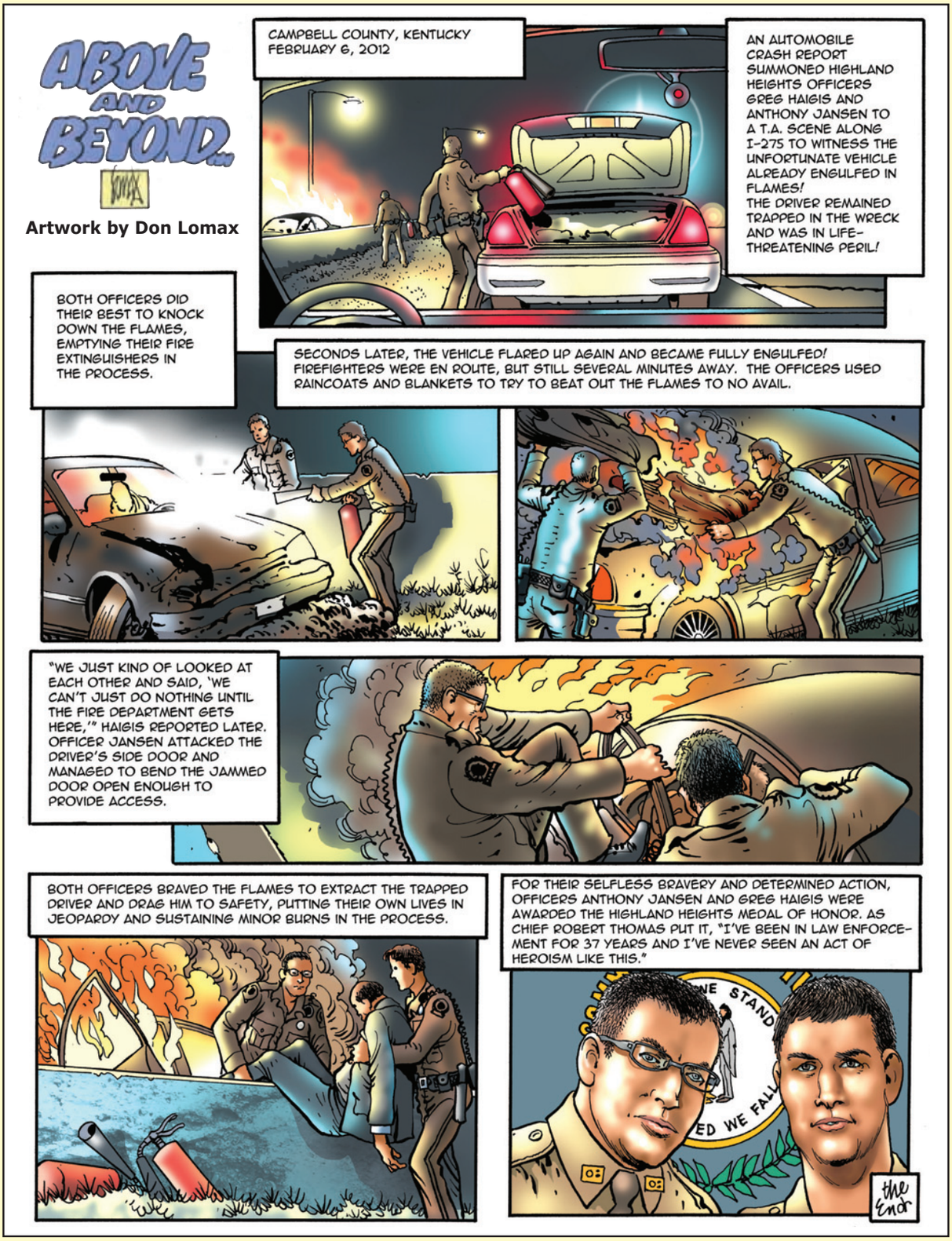
Above and Beyond...

HONORING THOSE WHO TAKE RISKS AND SAVE LIVES

"Above and Beyond..." salutes
Officers Greg Haigis and Anthony Jansen
of the Highland Heights, KY, Police Department


ABOVE AND BEYOND...
CAMPBELL COUNTY, KENTUCKY
FEBRUARY 6, 2012
AN AUTOMOBILE CRASH REPORT SUMMONED HIGHLAND HEIGHTS OFFICERS GREG HAIGIS AND ANTHONY JANSEN TO A T.A. SCENE ALONG I-275 TO WITNESS THE UNFORTUNATE VEHICLE ALREADY ENGULFED IN FLAMES! THE DRIVER REMAINED TRAPPED IN THE WRECK AND WAS IN LIFE-THREATENING PERIL!
BOTH OFFICERS DID THEIR BEST TO KNOCK DOWN THE FLAMES, EMPTYING THEIR FIRE EXTINGUISHERS IN THE PROCESS.
SECONDS LATER, THE VEHICLE FLARED UP AGAIN AND BECAME FULLY ENGULFED! FIREFIGHTERS WERE EN ROUTE, BUT STILL SEVERAL MINUTES AWAY. THE OFFICERS USED RAINCOATS AND BLANKETS TO TRY TO BEAT OUT THE FLAMES TO NO AVAIL.
"WE JUST KIND OF LOOKED AT EACH OTHER AND SAID, 'WE CAN'T JUST DO NOTHING UNTIL THE FIRE DEPARTMENT GETS HERE,'" HAIGIS REPORTED LATER. OFFICER JANSEN ATTACKED THE DRIVER'S SIDE DOOR AND MANAGED TO BEND THE JAMMED DOOR OPEN ENOUGH TO PROVIDE ACCESS.
BOTH OFFICERS BRAVED THE FLAMES TO EXTRACT THE TRAPPED DRIVER AND DRAG HIM TO SAFETY, PUTTING THEIR OWN LIVES IN JEOPARDY AND SUSTAINING MINOR BURNS IN THE PROCESS.
FOR THEIR SELFLESS BRAVERY AND DETERMINED ACTION, OFFICERS ANTHONY JANSEN AND GREG HAIGIS WERE AWARDED THE HIGHLAND HEIGHTS MEDAL OF HONOR. AS CHIEF ROBERT THOMAS PUT IT, "I'VE BEEN IN LAW ENFORCEMENT FOR 37 YEARS AND I'VE NEVER SEEN AN ACT OF HEROISM LIKE THIS."
the End

Artwork by Don Lomax

"Above and Beyond..." Sponsored by Original S.W.A.T. Footwear Co.

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Please direct all submissions and/or questions to:
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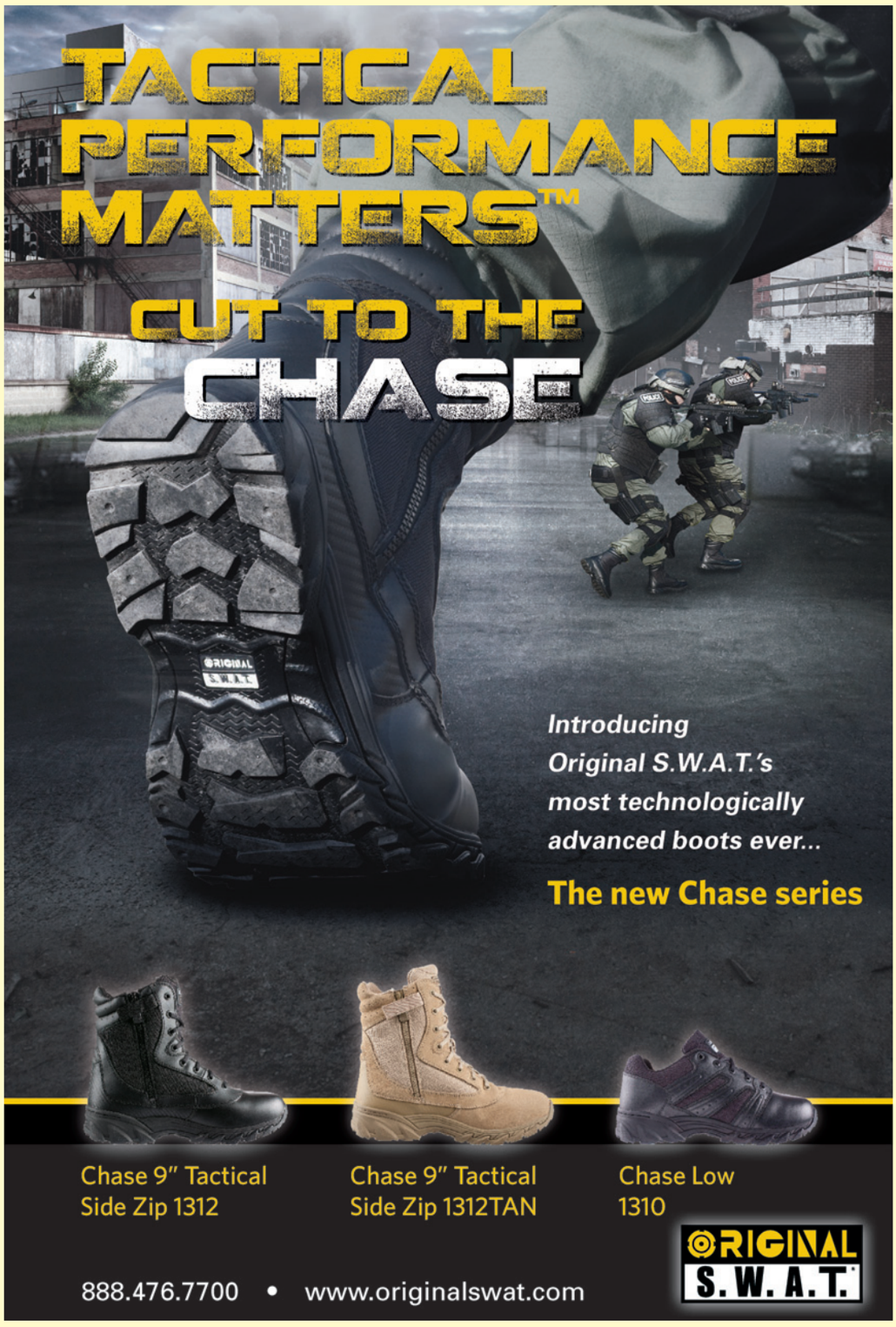
Philadelphia Police Allow Officers to Transport Trauma Victims

"Scoop and runs" or "cop drops" – the practice of using police cruisers to transport critically injured victims to hospitals rather than wait for an ambulance and risk the victim dying – is common in Philadelphia, but rare for many other law enforcement agencies.

Rarer still is including the practice within officer guidelines. Officers are advised to transport victims of penetrating gunshot or stab wounds (but not victims of blunt force trauma or vehicular collisions) rather than wait for emergency medical or fire department personnel. They are minimally trained for the transports and are expected to use their own judgment or call on a supervisor for assistance. When they do transport, they're required to put on latex gloves and obtain the victim's consent before assisting the victim into the cruiser. And, they're encouraged to think in terms of human life rather than whether the person is a criminal or not.

No one tracks how many "scoop and runs" happen in Philadelphia, where 250,000 calls for service per year leave emergency medical services understaffed and overworked; police often arrive at crime scenes before any of the city's 50 ambulances do. Officers believe they take up to one third of shooting victims to city hospitals and also that, if they didn't transport, they'd be investigating more homicides – not just of victims themselves, but of other victims caught in retaliatory strikes.

By transporting trauma victims, officers can get them to critical care inside of "the golden hour," the 60 minute window in which proper care can prevent death, brain damage or other irreversible injury due to blood loss. Philadelphia police have engaged in victim transports for more than 20 years and it's in place in Chicago and New York City as well. Research shows that, while it may not be better than waiting for an ambulance, it's at least as safe: Survival rates are no different between the two modes of transport. And, if a shooting scene is within eight to ten minutes – the standard EMS response time – of the nearest trauma center, it makes more sense for police to transport rather than remain at the scene and stabilize the victim. In Philadelphia, many of the trauma centers are close to high crime areas where officers regularly patrol.



Circle 4056 for More Information

New Social Media Surveillance Tools Provide Greater Capability

Rebecca Kanable

A new social media surveillance solution provides real-time monitoring of on-line communities, employing text analytics to correlate threatening language to surveillance subjects, thus providing investigators with warning signs of credible threats.

After a hate crime has been committed, police officers often learn that warning signs had been posted on social media sites. Often, the same is true with other crimes, such as gang activity, child abductions, drug buys and the like. The challenge is that these warning signs are found among millions of Web pages. Manually going through these sites is impossible. While automated threat analysis tools help, they require linguistics expertise and other tools traditionally available only to elite agencies to identify actual threats.

ECM Universe's Rapid Content Analytics (RCA) for Law Enforcement is changing that by moving emerging technology used only by these elite agencies to the forefront of everyday law enforcement. The solution was officially launched by ECM Universe this year at GovSec – the Government Security Conference & Expo. Founded in 2000, ECM Universe implements enterprise content management systems for government and commercial organizations and specializes in content analytics, eDiscovery and document management solutions on the IBM FileNet platform.

Certification for RCA for Law Enforcement as an antiterrorist solution by the Department of Homeland Security, Office of SAFETY Act Implementation is expected by the end of this year. ECM is working to implement the solution with federal, community and campus police agencies, but, due to the sensitive nature of the solution, organization names are not released.

RCA for Law Enforcement delivers two primary capabilities: social media surveillance and digital forensic data mining. The tool is used in criminal cases and protective service. Monitoring may be done to look for credible threats, fraud, bullying, employee behavior and suicidal tendencies.

In real time, the solution monitors Twitter, Facebook, Blogger, craigslist, Backpage, RSS,

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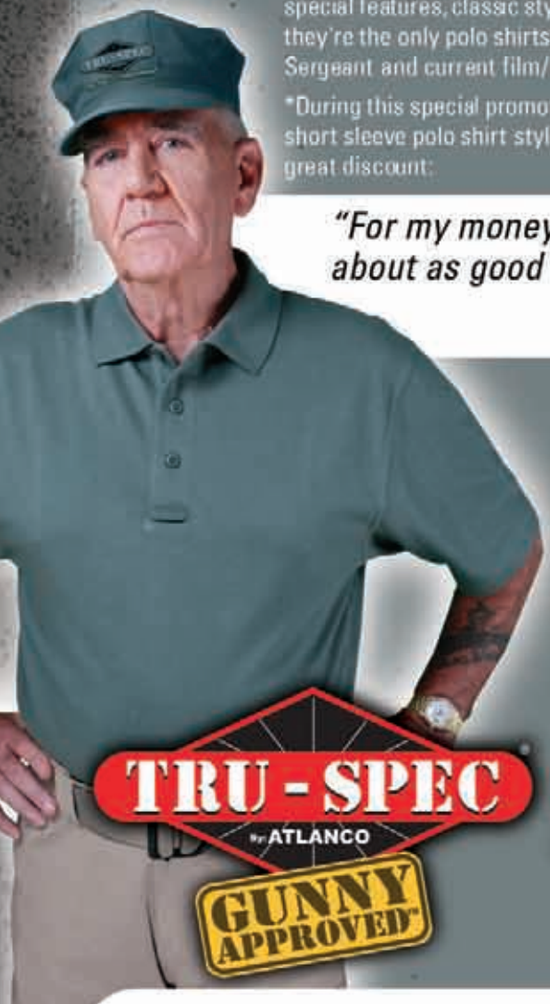

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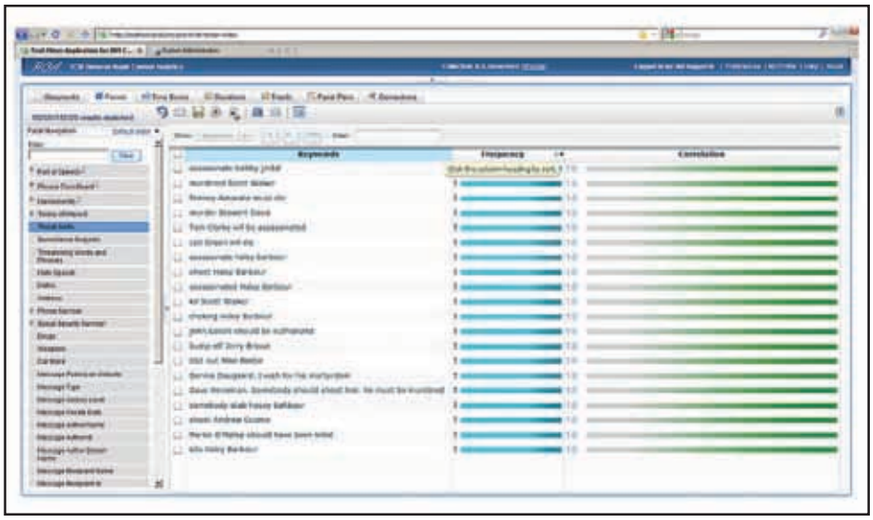


An analytic view for "Threat Alerts" displays these 20 threat alerts found among 182,000 messages.

An example of a data mining "Connections View" corresponding to the above messages

Google groups and other communities in which users express themselves freely. (A plan to monitor YouTube is underway.)

"I think everyone of us has scratched our head and wondered why people feel the need to tell us what they had for breakfast or that they're blow-drying their hair," said Scott Raimist, Solution Architect, of ECM. "The fact that they are communicating publicly worldwide slips away from them to the point where volatile situations subtly transform from harmless expression to dangerous intimidation or worse."

They may threaten others or themselves, or they may talk about criminal behavior, or make statements which can be used as evidence in an investigation.

Social Media Surveillance

RCA for Law Enforcement looks for these things along with surveillance subjects which can be people or places or anything which can be described in words. Natural language "surveillance packs" automatically analyze these words, so there's natural language processing and analytics.

Natural language rules determine "threat

Circle **4059** for More Information

Circle **4060** for More Information

alerts." Using IBM's Natural Language Processing Engine, RCA for Law Enforcement looks at threat verbs, adjectives and nouns, and overall sentence structure to determine the likelihood of an actual threat. As an example, the solution can tell the difference between "I am going to bomb the DMV" and "After I get my license from the DMV, I'm going to get bombed." Most tools would only look for "bomb" and "DMV," but would not look at the sentence structure and relationship of the words. Raimist noted other companies commonly offer social media monitoring, but not surveillance which differentiates relationships like these. RCA for Law Enforcement understands the first example sentence is threatening, while the second is not.

RCA also provides the ability to define "severe trigger phrases." Sentence structure is not factored in when severe trigger phrases like "dance on your grave" are combined with a surveillance subject in a message. Severe trigger phrases, which can be easily changed as jargon changes, also trigger alerts.

Alerts are sent out by E-mail, text message and Intranet dashboard with a link to display the message.

"This is an application that an organization will own and be able to tune to their specific jurisdiction," Raimist added.

Jurisdictional specific information (street names, ZIP codes, phone numbers, building names, etc.) is easily configurable.

If a police department has a list of facilities it's watching and public officials (prosecutors, judges, police/probation officers) it is protecting, for example, the list can be uploaded and configured as a category within minutes. Suspects and persons of interest can also be configured and monitored within minutes.

Data Mining

The analytic capabilities of data mining can be applied to social media surveillance and internal data sources, such as databases, file systems, old police records, cold case files, phone records and tip line reports.

RCA for Law Enforcement can do data mining on any textual data source; for example, storage media obtained from mobile phones, iPad®s, notebooks and other storage devices.

Various analytic views allow investigators to rapidly identify patterns and relationships, and perform investigative discovery on large amounts of data rapidly.

An analytical view called "Connections" shows color coded correlations. High relevancy correlations between surveillance subjects and threatening words or phrases, for example, will appear in red and may narrow the number of documents an investigator needs to look at from 1,500 to 47.

Application for Smaller Departments

For smaller departments, the power of RCA for Law Enforcement can seem overwhelming. To smaller departments, he says, "Think of it just as a street surveillance camera gathering evidence in the event that it's needed."

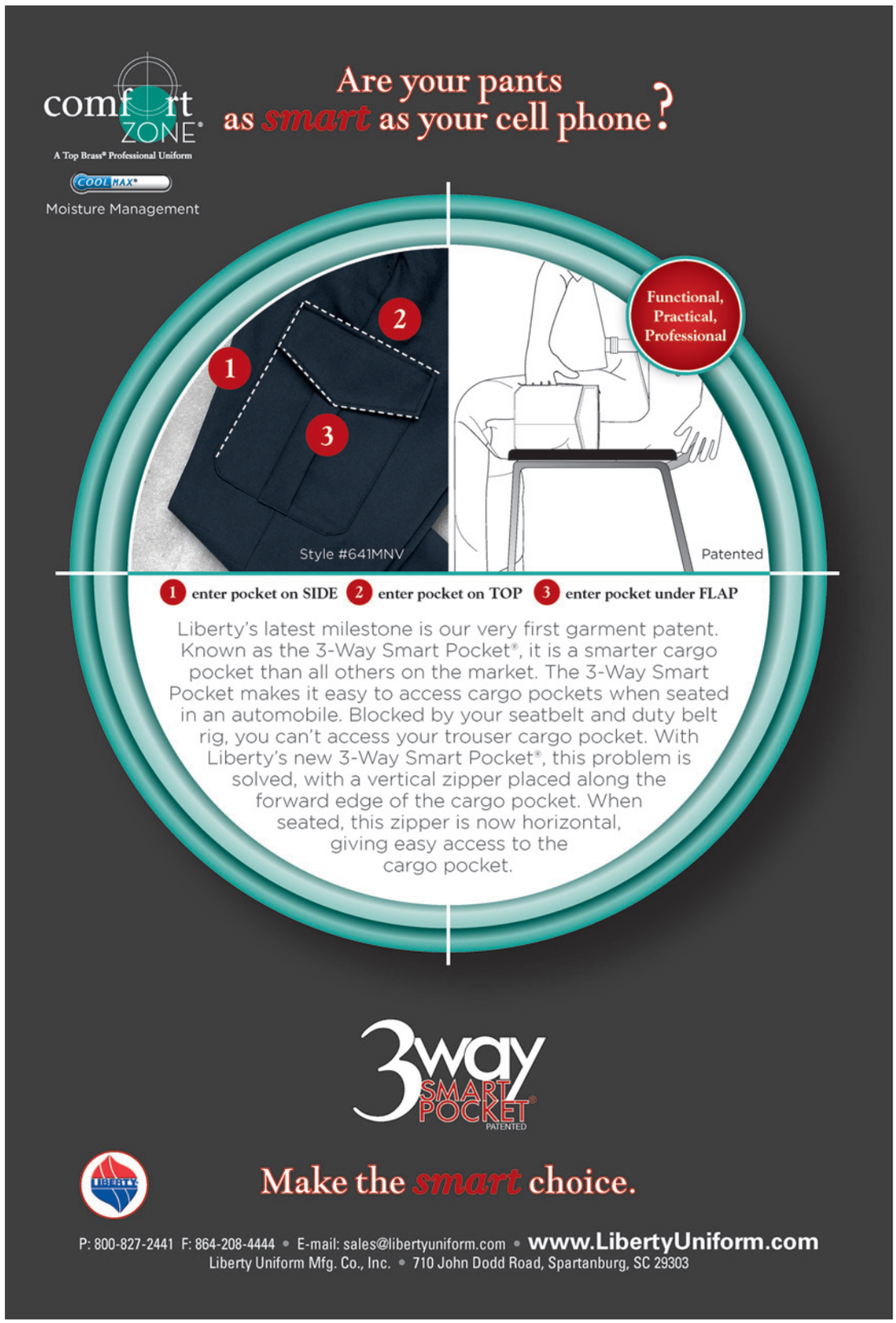
That's the basic usage Raimist would like to see proliferated on the community level. "One of the things that wasn't clear to us when we developed this solution was the need for ongoing evidence collection," he said. "What we have learned is the system can be utilized very much like surveillance cameras posted throughout a city. They aren't necessarily preventative. They don't necessarily stop crime, but you often see images from them on the news. It turns out that this system has the same utility as those street corner cameras. When a threat report comes into the police department, they often don't have a tracking mechanism. This helps fill that void. Just like with a street surveillance camera, there's no guarantee you'll get every message. There's no guarantee that the crime will be committed in view of the camera, but if you have the camera strategically placed, you increase your odds of having evidence after the fact."

ECM demonstrated this to a campus police chief and showed him that RCA for Law Enforcement could tell him in real time what was going on in the dorms. "We put monitors on dorms and we can see kids saying come on over, here's what we're going to do," Raimist said. "It's pretty incredible."

Reverse Surveillance

Using reverse surveillance, agencies can monitor their own Facebook page and Web site, for threatening words and phrases.

Federal agencies and large corporations especially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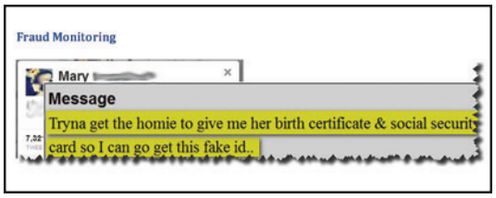
Fraud Monitoring
Mary
Message
Tryna get the homie to give me her birth certificate & social securit
card so I can go get this fake id..

An example of a fraud monitoring message is displayed.

could find this useful. Raimist demonstrated to *Police and Security News* that terrorists go straight to the DHS Facebook page and taunt DHS. The data, in this sample case, took about four minutes to collect, two minutes to analyze and five minutes to look over.

Geolocation

Often, Raimist is asked about geolocation capabilities. "If you're doing surveillance, you want to configure your system to have as much geographic and uniquely identifiable information within your jurisdiction as possible," he said.

Again, using a local DMV office as an example, he said DMV offices can be included as data analysis pattern identification categories so that they automatically index out of hundreds of thousands of messages.

ECM's experience has been about 20 to 30 percent of social media users enable geolocation.

While demonstrating RCA for Law Enforcement, Raimist said a sample alert told an agency he was sitting in their office. That's because he had geolocation turned on in Twitter. "It followed me into their office and knew I was there because I plugged into an IP port in their office," he explained. "What I tell agencies is that geolocation is great; however, it is dependent on the social media provider and the individual. When I Tweet, I can change my location to anything I want."

To commanding officers who hope to dispatch officers immediately to the precise real-time street level location where a threat is coming from, he tells, "It's not quite that advanced – yet. If people start posting their geolocation as much as they do pictures of their breakfast, that's really going to empower this software."

Until then, he said geolocation remains a relatively unreliable area in social media surveillance.

Bleeding Edge

Raimist also is asked very high-tech questions, such as would the system be able to identify a threat if someone said, "I'm going to pull a Lofner." (Jared Loughner is the man charged with the shooting in Tucson, Arizona, on January 8, 2011, which killed six people and left 14 others injured, including U.S. Representative Gabrielle Giffords.)

The answer to that question technically is "yes," he said, however, the system is limited by the search capabilities of the social media providers. If the person who sent the threat did not spell Loughner correctly, RCA for Law Enforcement's advanced linguistic capabilities could pick that up. That's not necessarily the case when Facebook or Twitter searches are being done. These searches are very simplistic and would require an investigator to set up "Loughner" with both spellings of the name as a surveillance subject.

Steps for Using RCA for Law Enforcement

- An investigator identifies on-line communities which should be monitored;
- RCA for Law Enforcement monitors real time or crawls these sites to collect postings and documents;
- Text analytics capabilities data mine for threatening language relevant to an individual or group under surveillance;
- Results can be reviewed in a variety of analytic views which emphasize relevance; and
- Alerts automatically notify the investigator when a threatening or suspicious message is posted.

Limitations

The limitations of RCA for Law Enforcement are the same as with any linguistic analysis system, Raimist said. Those being heuristics, solving a problem with an infinite number of answers.

He goes back to the street surveillance camera comparison. "You can't just turn it on and have it

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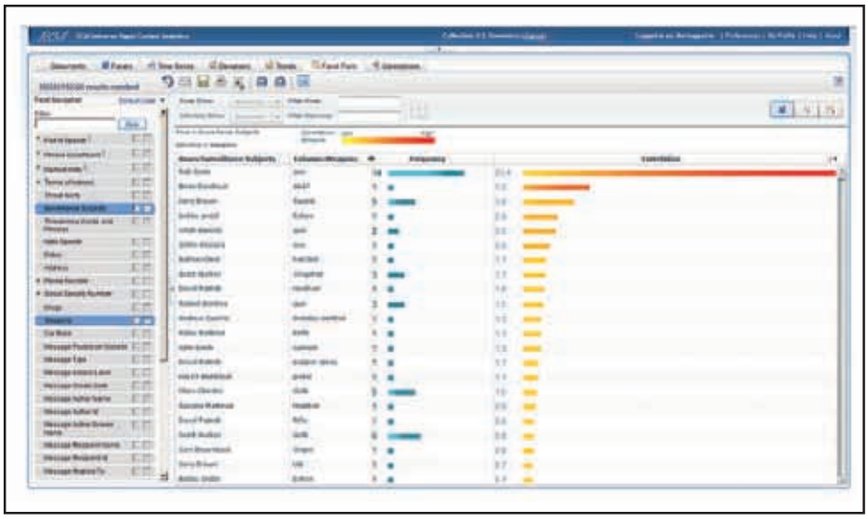

This analytic view, called "Facet Pairs," displays the correlation score of "Surveillance Subjects" to "Weapons."

Keeping Social Media Policies

ECM does not advocate violating the policies of Facebook or any other social media provider. ECM does not perform impersonation on behalf of any organization. ECM's RCA for Law Enforcement software uses the security access provided by an organization to the software.

catch everything which passes in front of it. You have to tell it something about what you want to 'watch' – building names, street locations or people, for example."

Fortunately, he said it's not difficult to enter search criteria and the investigative analysis is really intelligent.

Future Capabilities

Future capabilities of RCA for Law Enforcement will include more self-service from a surveillance perspective. "Imagine putting in the name of a city and the surveillance subjects are automatically configured based on the top tourist attractions, government buildings and public officials," he said. Today, investigators need to be more specific than just a city name.

ECM also plans to prebuild criminal psychological profiles into the surveillance packs so that customers can do monitoring based on criminal psychological profiles.

About the Author: Rebecca Kanable is a freelance writer specializing in law enforcement topics. She can be reached at kanable@charter.net.

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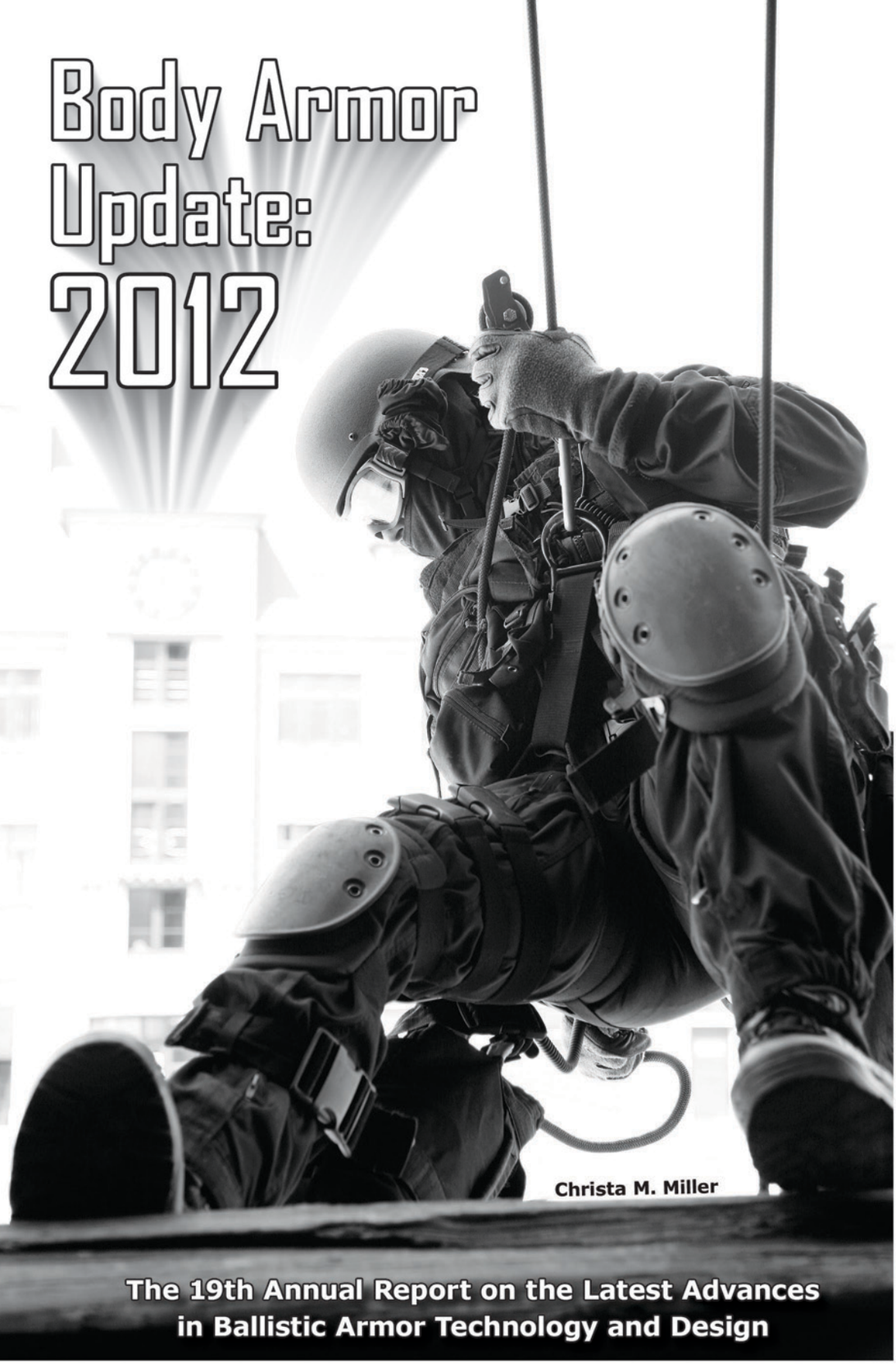
Body Armor Update: 2012



The 19th Annual Report on the Latest Advances in Ballistic Armor Technology and Design

Just because a body armor manufacturer says its armor is NIJ 0101.06 compliant, does that mean you can trust their word? A new National Institute of Justice (NIJ) program aims for "yes." Its Follow-Up Inspection and Testing (FIT) Program inspects and tests recently manufactured body armor to ensure that it will perform the way previously tested samples do.

Administered by the NIJ's National Law Enforcement and Corrections Technology Center (NLECTC), together with the existing Compliance Testing Program (CTP), the FIT Program lends an additional layer of oversight to the manufacturing process. Using surprise inspections by independent inspectors during production, the FIT Program successively compares new armor construction with preproduction samples previously found to comply with the voluntary CTP. It focuses on manufacturers who have models listed on the compliant products list and have not been inspected within the past ten months.

Like the CTP, the FIT Program includes both construction inspection and documentation and performance testing. Models found to comply under FIT are included on the compliant products list.

The program has completed 75 inspections since its first one in September 2010. In at least one case, the program found problems with three (out of 191) armor models' performance. The affected manufacturer recalled and replaced more than 1,750 ballistic vests which were already in the field. In other cases, vest construction was found to differ significantly from original samples: differences in the number of ballistic layers or leaky covers, either of which could affect performance.

Besides the recalls and replacements, the inspections helped manufacturers to identify which quality control measures they needed to instill. Rather than be burdensome to their businesses, the FIT Program has improved their efficiency and ability to maintain their market position. And, program administrators anticipate that its lessons will help inform the upcoming 0101.06 revision, slated to begin this summer.

Meanwhile, NLECTC reports that the CTP is collaborating with the ANSI-ASQ National Accreditation Board (ANAB) to develop accreditation rules for the BA 9000, a body armor quality management standard which extends ISO 9001 for manufacturers. Certification under BA 9000 will mean that body armor is being consistently manufactured.

More information and the compliant products list can be found on the NLECTC's Web site at **www.justnet.org**.

Another Justice Department program, the Bulletproof Vest Partnership (BVP), continues to run. BVP funding is contingent upon mandatory ballistic vest wear policies which must be in place and in force at the time the agency submits its grant application. Also, the BVP grant only applies to NIJ 0101.06 certified armor purchases.

For more information on these and other BVP requirements, see the application checklist at **http://www.ojp.usdoj.gov/bvpbasi/docs/FY2011BulletproofVestPartnershipApplicationChecklist.pdf**.

Industry News

DuPont™ Protection Technologies has announced that it is acquiring the assets of BAE Systems Tensylon High Performance Materials, Inc., and has also purchased a minority share in

The new Razor™ from Armor Express

Nanocomp Technologies, Inc. DuPont made these moves in order to help augment its Kevlar® technology. Tensylon's UltraHigh Molecular Weight PolyEthylene (UHMWPE) tapes and Nanocomp's Carbon NanoTube (CNT) yarns and sheets are expected to help DuPont develop stronger, lighter, more durable, and higher performing armor materials for vests; helmets; and, even, vehicles.

New Ballistic Protection Products for 2012

Affordable Body Armor

A new brand of body armor, Affordable Body Armor, is a Kevlar-based product with NIJ 0101.06 certification. Made with thin ballistic panels to optimize comfort, the Affordable Body Armor system is meant for either agencies or officers who must purchase their own vests.

Armor Express™

Armor Express' newest product line is its Razor™ Level II (RZR-B-II) which the company touts as its lightest weight and thinnest body armor system ever. It uses Kevlar and Dyneema® ballistic materials for a package which weighs just .81 pounds per square foot and is only .18" thin. The Razor, which is certified from NIJ approved C1 and C5 templates, comes standard with Armor Express' Revolution™ concealable carrier system which maximizes comfort and durability; a 5" x 8" .36 pound ARA-Shock ICW armor plate for Level IIIA semirigid aramid protection; and a five year warranty.

A new accessory for MRAPS™ ballistic shields is the QuikDon™.

Baker Ballistics, LLC

Baker Ballistics has added a new accessory to their MRAPS™ handheld ballistic shield – the QuikDon™. To allow for first responder patrol use, the MRAPS standard "Quick Release/Spreader"

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assembly and bungee load bearing system is simply snapped onto the QuikDon instead of the military or SWAT operator's tactical armor. The shield is quickly donned and offers hands-free, full frontal, body ballistic protection by allowing the weight of the MRAPS to be immediately transferred to the upper rear torso and neck. The QuikDon can be affixed to the rear pants belt for comfortable longtime wear.

The MRAPS lightweight shield provides users with NIJ Level III rifle threat protection, defeating multiple impacts from most common assault weapons from close range.

Battleware Technologies, Inc.

Battleware this year has three offerings of note: a tactical vest, a helmet and a shield. Its new SIERRA™ vest is built for comfort, cut to stay close to – and move with – the wearer's body. TUBE™ side closures and the 6/12 pocket attachment system, together with front, back, and side rifle plate inserts, make for full adjustability in any environment. TUBE side closures (developed by First Spear) remove all of the drawbacks of VELCRO® side flaps. When loaded with a Kevlar XP Level IIIA armor system, a size large vest weighs only seven pounds.

Battleware's new SIERRA™ ballistic vest utilizes TUBE™ closures instead of VELCRO®.

The HARDPOINT shield is available with custom configurations.

Battleware's three pound VIPER helmet is tested to both NIJ Level IIIA and US Military ACH fragmentation protection standards. It features an NVG shroud, side rails to attach accessories, a custom liner with padded inserts, and a slide buckle chin strap.

Finally, Battleware's HARDPOINT all Kevlar entry shields are certified to NIJ Level IIIA or Level III rifle protection. They're available in standard or custom cuts and with a wide variety of handle carry options. They complement Battleware's series of soft shields meant for first responder entry protection.

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The V1 External Vest Carrier from Elbeco is designed to be worn over a uniform shirt.

Elbeco, Inc.

The Elbeco V1 External Vest Carrier is a cosmetic outer shell which houses the vest in its original concealable carrier for a professional uniform look. The External Vest Carrier is designed to be worn over a uniform shirt and fits most carriers on the market, when front and rear assemblies separate at the shoulder with either a hook and loop or adjustable strap mechanisms.

Features include two functional front pockets, a pen opening, stitched in military creases, and a false button front placket to match the shirt. The V1 External Vest Carrier is offered in a variety of fabrics, including polyester, poly/cotton, poplin, and wool and both traditional and West Coast styling options.

GH Armor Systems

GH Armor Systems combines form and function in its new Uniform Shirt Carrier, a professional-looking, custom-fit shirt which supports ballistic panels in the most low profile way possible. Made with 600 denier polyester, pin tucks, shoulder epaulets, formal buttons, and scalloped pockets, the shirt easily conceals protective armor without looking overly tactical.

It's adjustable at the sides and shoulders and includes extra pocket space, along with badge and nameplate attachments. An internal cummerbund and ballistic suspension can support all GH Armor Systems concealable ballistic panels, including 5" x 8" and 8" x 10" front trauma plates. A moisture wicking inner liner helps keep the wearer comfortable.

KDH Defense Systems, Inc.

KDH Defense Systems' ATPC-SPEAR system is the culmination of four years of research and development with the US Air Force – Special Operations Command. The ballistic shape is based on

New from KDH is the ATPC-SPEAR.

the US Special Operations SPEAR shaped ballistic panels which balance maximum coverage with operator mobility. In addition to the many standard features of the ATPC-SPEAR, it can also be used with the KDH CORELOAD™ weight reduction system. The CORELOAD system allows the weight of the vest to be moved from the shoulders to the hips, similar to that of a backpack.

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Fake IDs Made Overseas Are Harder to Detect

NEWS

Making fake IDs are no longer the domain of teens looking to buy alcohol for weekend parties. Foreign forgers are now in on the action, running Internet businesses with IDs which are so good, they can even get past electronic digital security with forged digital holograms, the same PVC plastic used in credit cards and ultra-violet sensitive ink stamps. This brings them to a different level than the fake IDs which could fool only the untrained eye.

Like other counterfeit goods, the drivers' licenses and other IDs are sold via Web sites from countries like China and Panama. They cost $75 to $200 and require only a scanned photo and signature to complete. The buyer picks the name, state and address. Customers can range from illegal immigrants to people seeking employment and even the ability to pilot aircraft. However, these customers have also fallen prey to identity theft after completing the on-line forms. And, the US government cannot intervene – only those in the companies' countries of origin can.

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Circle 4075 for More Information

The Hardline Entry Shield from Patriot3 weighs only 16 pounds.

Mocean

A lightweight, external ballistic vest carrier is newly available from Mocean, a manufacturer of bike patrol and technical law enforcement products. Designed to accommodate most concealable ballistic panels, the Mocean carrier looks like a standard uniform shirt. It's made of Cordura® nylon and is available in a range of colors to match the rest of the wearer's uniform.

The new Rapid Assault Mission (RAM-1) tactical vest from Point Blank is both lightweight and very flexible.

Patriot3, Inc.

New from Patriot3 is the Hardline Entry Shield which offers NIJ Level IIIA protection; a concave design; lightweight mobility; and a large 14"x 4" port for a maximum ballistic protected viewing area. The Hardline Entry Shield weighs only 16 pounds and provides full coverage from the waist up. It comes with a curved grip handle which complements the concave design and allows the operator tighter positioning behind the shield.

The Python concealable vest from Protective Products features a number of new ballistic models.

Point Blank Body Armor

The newest offering in Point Blank's lineup is its tri-compliant ballistic systems. Certified to meet or exceed NIJ 0101.06; revised FBI tests for controlled projectiles and the most prolific threats; and the DEA's MIL-STD-662F fragmentation requirements, the new systems include the AIIIA-1, FLXIIIA, and DXIIIA ballistic packages. The new Rapid Assault Mission (RAM-1) tactical vest (available with the AIIIA-1, FLXIIA or DXIIIA

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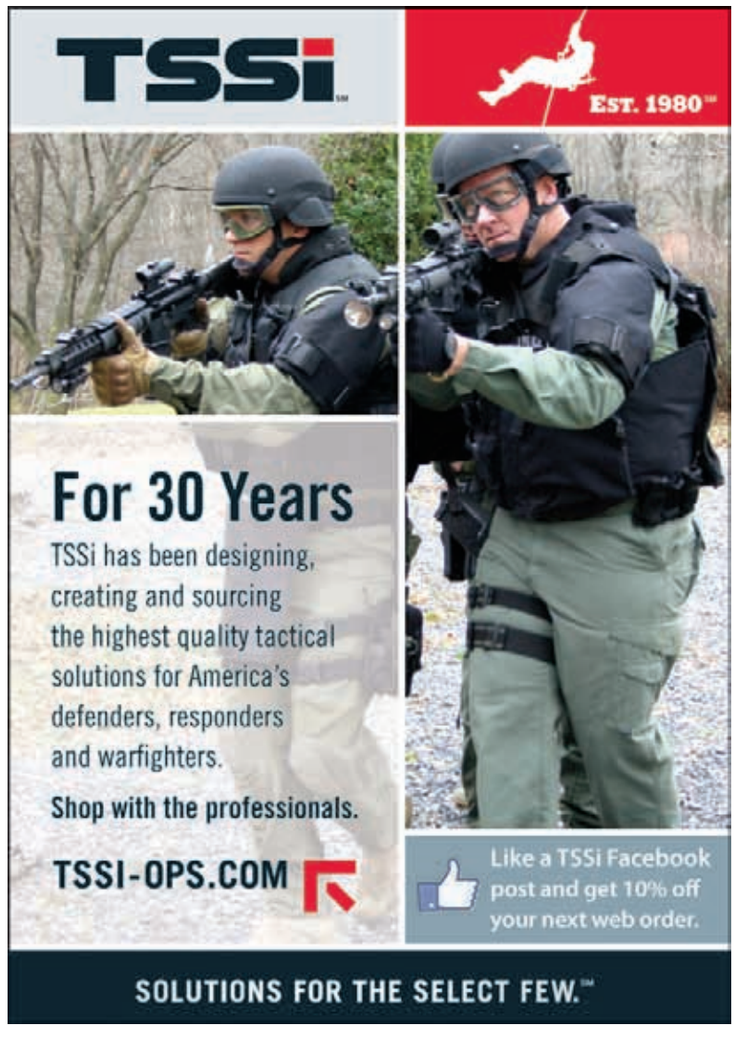
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NRA 2011 Law Enforcement Officer of the Year

Deputy Michael S. Zack
Cecil County Maryland Sheriff's Department

Deputy Michael S. Zack exemplifies the professionalism of our nation's best law enforcement officers who view their role as a sacred trust.

His fellow Deputy may well be alive today because of Zack's heroism.

I can think of no one more deserving of recognition as NRA Law Enforcement Officer of the Year than Deputy Zack.

David A. Keene
NRA President

On January 6, 2011, a Cecil County Maryland Sheriff's Office Deputy attempted to stop a motorist for a minor traffic offense. The violator ignored the deputy's signals to stop, and a 10-mile pursuit began. At one point during the pursuit, the violator stopped, placed his vehicle in reverse, and rammed the pursuing deputy's cruiser. Identified through a license plate check, the driver was found to have a suspended driver's license, and there were reports that he had been aggressive against law enforcement, local government officials, and may be unstable.

Off-duty Cecil County Deputy First Class Michael Zack, traveling in his take-home cruiser, was unaware of the pending pursuit until he saw a cruiser at a distance in his rear view mirror with its emergency lights on. He then heard radio traffic about the traffic stop and that the driver might attempt to flee.

Despite other deputies being dispatched to provide back up, having only his off-duty pistol and credentials, and in civilian clothes, Deputy Zack turned his cruiser around to assist his fellow deputy without hesitation. As Deputy Zack finished a u-turn, the pursuit began. The suspect sped towards him and moved his car directly into the path of Deputy Zack's cruiser in an attempt to hit him head-on. After taking evasive action, Deputy Zack was able to turn back around, join in the pursuit and provide immediate back-up, and took charge of the communications.

The pursuit's path indicated that the suspect was heading for his residence, so Deputy Zack terminated the pursuit to protect innocent citizens from further danger. He hoped the suspect would slow down and stop driving recklessly when he saw the cruisers back off.

After reaching the suspect's residence, the deputies located the suspect's vehicle and searched the open area as they moved independently towards the house. Reaching the front door first, Deputy Zack's partner saw that it was open. As he began visually searching the entrance area, he saw the suspect with a sawed-off shotgun in his hand. Hearing his partner commanding the suspect to drop the shotgun, Deputy Zack ran to his partner's location, where he saw the gunman raising the shotgun towards his partner. Seeing Deputy Zack's movement off to his side, the gunman turned his attention away from the deputy and aimed the shotgun at Deputy Zack's head. Deputy Zack immediately engaged the gunman with multiple shots, dropping the gunman to the floor, and ending the confrontation.

From the beginning to the end of the incident, Deputy Zack played a major role. His response to aid a fellow deputy without hesitation, despite being off-duty and without his ballistic vest and duty gear, was without a doubt above and beyond the call of duty. Deputy Zack's valorous act of placing himself in harm's way to draw the attention of the gunman away from his partner is a credit to himself, his department, and the community he serves. His personal actions to quickly end the gunman's actions ensured the safety of other responding deputies and neighborhood residents.

His calmness, professionalism and heroism are in keeping with the highest traditions of law enforcement. It is with great honor and pride that the National Rifle Association names Deputy First Class Michael S. Zack of the Cecil County Maryland Sheriff's Office as the 2011 NRA Law Enforcement Officer of the Year.

NRA's Law Enforcement Officer of the Year Award was established in 1993, and recognizes exceptional valor, public service, and dedication to the principles of our Constitutional heritage.

Entry forms for nominating candidates for the Law Enforcement Officer of the Year Award may be downloaded at www.nrahq.org/law/graphics/leoy.pdf. Entry forms must be submitted by September 1.

Nominations are accepted from anyone having knowledge of the nominee's actions. This includes, but is not limited to, the nominee's agency head, other law enforcement officials, elected officials, fellow officers, community leaders, interested citizens, and NRA members.

For more information about NRA's Law Enforcement Officer of the Year Award and its Law Enforcement Division, call (703) 267-1632 or send an e-mail to LE@nrahq.org.

Scan this code with your smartphone or tablet to get more information about the NRA Law Enforcement Officer of the Year recognition.

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The new FAV MKII from PROTECH® features a quad release buckle system.

A noticeable feature on the new Intruder G2 Shield is the ballistic viewport design.

ballistic package) is made for rapid response teams which require lightweight, very flexible body armor systems. This system provides bullet stopping power against low caliber (.357 SIG V50 of 1814 feet per second) and high caliber (.44 Mag V50 of 1674 feet per second) ammunition.

The Python concealable vest, made by sister company Protective Products Enterprises, also features the AIIIA-1, FLXIIA or DXIIIA ballistic model and provides full side coverage along with a four-point fully adjustable waist and shoulder straps which help ensure proper fit to body shape. Its moisture wicking microfiber liner helps keep the wearer drier.

PROTECH®

A new Quick Release tactical vest joins PROTECH's FAV MKII family of vests, enhancing existing FAV MKII options with a quad release system. Maritime users or others who need quick doffing abilities will appreciate the simple deployment handle located on the vest's center upper torso. Releasing the vest requires only a quick pull. A quad release buckle system on the vest's bottom front and shoulders allows for easy reassembly.

The FAV MKII QR carrier comes with front, back, shoulder, and 6" x 10" side ballistic panels, as well as external top loading plate pockets on the front and back to hold 8" x 10" or 10" x 12" Level III or IV hard armor plates.

The carrier also comes standard with six integrated long arm magazine pouches, along with a 360 degree modular attachment system which accommodates all PROTECH Tactical TP pouches and accessories. An outer cummerbund with adjustable sides and likewise adjustable shoulder and side closure systems enable a custom fit, while a shoulder area dual weapon retention system facilitates individual shooting positions.

FAV MKII QR purchasers have the option of including PROTECH's Spacer-Mesh™ padding system which improves both airflow and cushioning at the same time that it reduces load carrying fatigue. The system attaches to the carrier internally.

Also new from PROTECH is the Intruder G2 Type IIIA Shield which features an innovative ballistic viewport design. The shield and viewport have been independently tested to defeat a wide variety of handgun rounds.

The Intruder G2 is made of 100% unidirectional polyethylene material with a vacuum molded outer skin which provides increased durability. The ballistic shield measures 20" x 33" in size and weighs approximately 21 pounds.

Safariland™

Safariland has launched the next generation of its American Body Armor (ABA®) Xtreme® line: the XT02 Series, a hybrid of Twaron®, Honeywell® Gold Shield®, and Dyneema ballistic materials. These packages are available in Level IIA, II, and IIIA certified systems. Coming standard with ABA's Universal AJ Carrier, the XT02 Series follows the other Safariland concealable armor models' certification according to NIJ approved C1 and C5 size templates. This provides the greatest

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The new Xtreme® Carrier works in conjunction with any ABA® ballistic package.

choice in production sizes.

The XT02 Series is also Berry compliant, meaning it meets the Defense Department's procurement requirement (under 10 USC 2533A) for domestically produced textiles and other goods.

Also from Safariland is the Xtreme Carrier which features advanced moisture and odor management in a lightweight, sleek look. An internal liner made of X-STATIC® XT2™, an antimicrobial knit, repels microorganisms and moisture, reduces odor, and keeps the user cool and dry. Officer customization is achieved through a combination four- and six-point universal strap kit system to achieve desired fit.

The Xtreme Carrier features a hidden zipper for easy insertion of armor panels which are held secure by a Grip-Lok™ integrated panel suspension. It comes standard with front and rear tails and is offered in a variety of standard and custom agency colors, as well as in a poly/cotton blend. The Xtreme Carrier works in conjunction with any ABA mail or female structured or unstructured ballistic package.

Top-Line® Armor Systems, LLC

Top-Line's new Tactical Response Vest (TRV) was designed specifically for comfort. Maximum MOLLE coverage distributes weight loads more evenly, as well as providing more storage space. Adjustable interior padded shoulder straps and mesh interior liners add to the comfort, as do the use of optional side plate pockets which can accommodate 5" x 8", 6" x 8", and small SAPI plates. Besides comfort, however, the TRV enables better ballistic coverage by also accepting SPEAR/CIRAS cut panels.

About the Author: Christa M. Miller (http://christammiller.com) is a freelance writer and public relations consultant based in South Carolina. She specializes in law enforcement and digital forensics issues.

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Ms. Katy Rasiak, Dr. Tod W. Burke & Dr. Stephen S. Owen

Photos courtesy of Cross Match Technologies, Inc.

Handheld Biometric Technology Offers Great Potential for Law Enforcement Applications

Handheld biometric technology integrates the mobility and versatility of a video camera equipped with recording audio recognition and facial capture technology. Many of these devices are also equipped with a fingerprint reader and iris scanner.

While on patrol, an officer observes a driver roll through a stop sign. The officer activates her emergency lights and stops the vehicle. After approaching the stopped vehicle, the officer asks the driver for his license and registration, but the driver is uncooperative and refuses. The officer detains the driver and reaches for a handheld biometric recognition device attached to her police duty belt, raises it to the suspect's face and presses a single scanning button. A "hit" on the device's screen indicates that the driver is wanted for murder. Aided by innovative biometric technology, the subject is arrested. This is just one example of a potential application of handheld biometric devices for law enforcement.

While not yet widely deployed, these devices hold a lot of potential for law enforcement applications. After providing a brief history of biometrics, this article will focus on handheld biometric devices, including their advantages and limitations, officer safety and legal concerns, and recommendations.

History of Biometrics

Biometrics, the development of automated human identification, had its origins around 6000 B.C. when the Assyrians, Babylonians, Japanese, and Chinese first recorded fingerprints. However, it was only in the late twentieth century that biometrics expanded to include many other forms of identification, such as retinal scanning, iris recognition, improved hand geometry, and more. Although automated facial recognition originated during the 1960s, it remains a relatively new concept. Real-time automated facial recognition systems were developed by 1991.

In March of 2011, the FBI disseminated information about a new Biometric Database, the Next Generation Identification (NGI), a Lockheed Martin program which steps beyond the Integrated Automated Fingerprint Identification System (IAFIS). While not yet completed, the NGI will provide "automated fingerprint and latent search capabilities, electronic image storage, and electronic exchange of fingerprints to more than 18,000 law enforcement agencies and other authorized criminal justice partners 24/7."

The first Biometric Standards for the interchangeability and interoperability between biometric technologies, BioAPI Version 1.1, were approved through the InterNational Committee for Information Technology Standards (INCITS) and adopted by the American National Standards

Institute (ANSI) in 2002. The ANSI/INCITS (M1) 385-2004 and ISO SC-37 19794-5 Face Recognition Data Interchange Format serve as the current facial recognition standards. Since then, countless products and numerous combinations of biometric technologies have emerged.

Biometrics Today

The FBI created the Biometric Interoperability Program, approved by the Department of Justice in 2008, promoting "biometric-based information sharing between the FBI's Integrated Automated Fingerprint Identification System and other federal, state, and international biometric systems." Facial recognition joined with the largest DNA repository in the world, the National DNA Index System (NDIS), the COmbined DNA Index System (CODIS) and the Biometric Center Of Excellence (BCOE), and spurred the formation of the Facial Identification Scientific Working Group (FISWG). Facial recognition/identification capabilities became a BCOE initiative: It "involves the automated searching of a facial image in a computer database, typically resulting in a group of facial images ranked by similarity." The two predominant approaches, "geometric (feature-based) and photometric (view-based)," calculate distances and ratios of features to a common reference point. Facial recognition is now used alongside iris recognition and fingerprint identification, but is not yet considered as accurate as the latter two. Error rates range from about 3.8% to 13%, depending on the facial recognition algorithm used. In comparison, fingerprint expert Simon Cole estimates that error rates for fingerprint identification range from 0.2% to 2.5%.

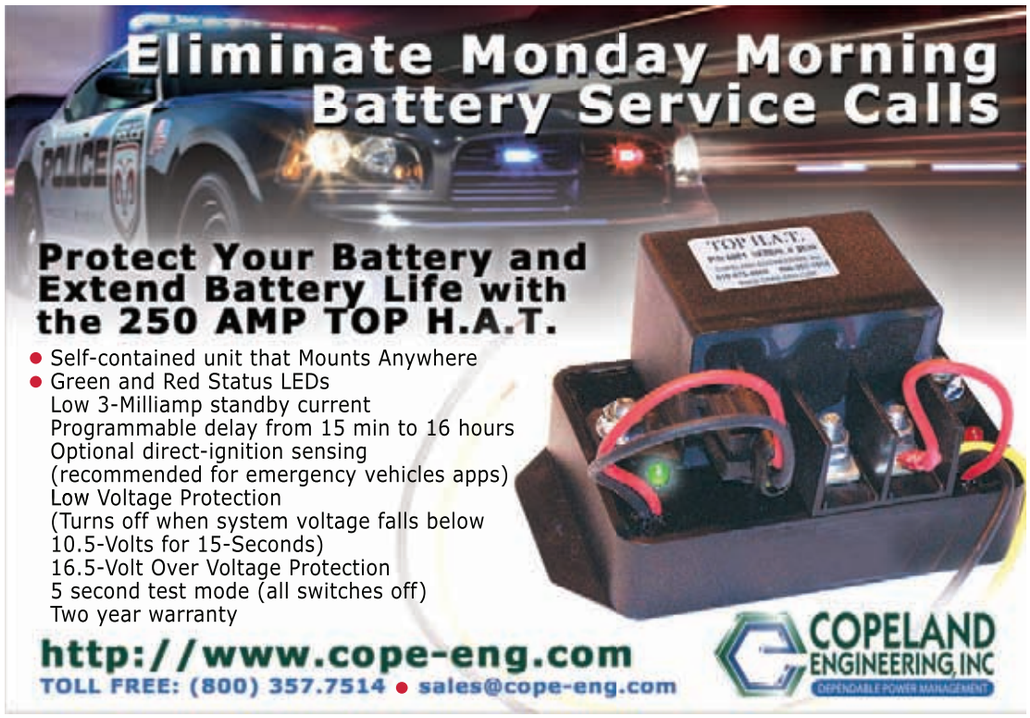
Versatility of biometric technology has increased and circulated to other fields, including social networking. For instance, social networking sites have utilized primitive facial recognition technology in profile linked photos. In addition, pattern recognition programs have been used on Web sites which search images and videos for a particular face.

Handheld Devices

Handheld biometric readers are capable of accessing multiple databases to identify and provide information about individuals who are identified through biometric characteristics. They have the memory capacity to store between one and five hundred thousand templates and to access remote databases, depending upon communication links.

In addition, GPS transmission capabilities of most handheld biometric readers may support 3G/4G cellular, Wi-Fi, tactical radio, and WiMAX or equivalents. Advances also allow the technology, including camera functions, to work in complete darkness. Depending on the size of the device, it may be easily stored on the person, such as on a duty belt, in cargo pockets or within hand baggage, but larger styles may have to be stored within the police vehicle.

Handheld biometric readers range from the size of a cell phone to a toaster, weighing between three and four pounds (about two kilograms). The handheld readers recently issued to sheriff's deputies in Pinal County, Arizona, are only slightly larger than a pack of cigarettes and attach to an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iPhone® or similar device. There are, in fact, biometric applications available for cellular devices.

Advantages and Applications

Biometric information can be processed in less than a second. It can even differentiate between identical twins. Accurate readings are confirmed with up to 40,000 data points used in matching. The effect of glasses and other facial coverings on its accuracy remains unclear. However, contact lenses do not prevent an accurate iris scan reading.

The handheld reader poses no potential harm through exposure to the radiation and lights needed for its capabilities. Exposure to retinal blue light limits, ultraviolet radiation, infrared radiation, and thermal hazards is below the defined hazardous limit. The technology withstands temperatures ranging from 35 to 120 degrees Fahrenheit (0-50 degrees Celsius) and is operable between 10-95% humidity.

The potential uses of the biometric devices are diverse, with applications extending beyond street patrol. For instance, the reader could be used in criminal investigations, such as identifying suspects or victims at crime scenes; in the search for missing children; and in Alcoholic Beverage Control (ABC) investigations of underage drinking. For example, if the identification of a homicide victim is in question, handheld biometric technology has the potential to determine identification from the iris, face, or fingerprints of the victim, saving investigators valuable time.

In the future, the biometric reader may potentially aid investigators in quickly examining suspects found at, or in flight from, the scene of a crime. The device may also be able to compare prints left at a crime scene with those of subjects in a fingerprint database.

Cases of missing children continue to be a public concern, especially as offenders can easily cross jurisdictional boundaries. Handheld biometric technology can assist officers in confirming the identification of known suspects believed to be involved in an abduction, even if from another jurisdiction. And, if an officer suspects that a child has been abducted or recognizes a recent abductee, this technology can help confirm the child's identity by accessing databases of missing children nationwide. Whether an officer suspects that a child has been abducted or is simply lost, handheld biometric technology has the potential to quickly help to verify identifications.

The production and use of false identification (e.g., fake photo IDs) has proved problematic. Advanced computer graphics technology has made the production of false identification easier and law enforcement detection of it more challenging. For instance, juveniles are exposed to a plethora of options to conceal their identity, including borrowing others' identification cards, purchasing fake identifications, and defacing otherwise valid identifications. If an officer is suspicious of the provided identification, it is possible that valid identification may be determined with handheld biometric technology.

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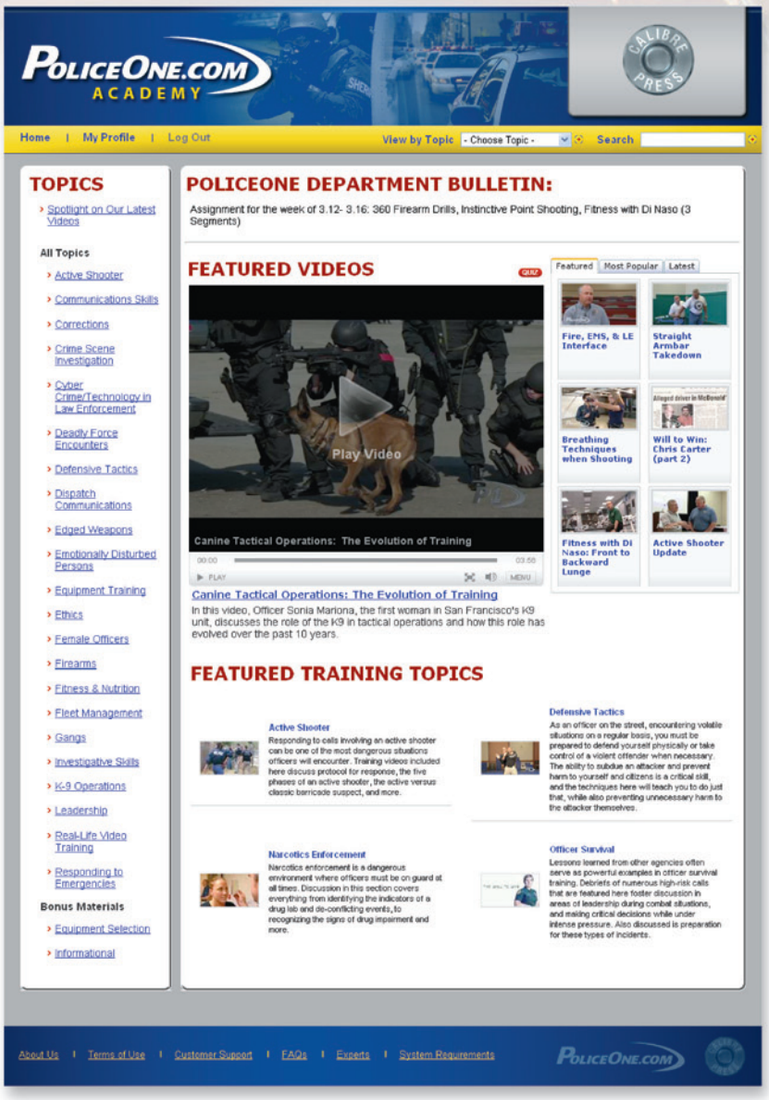
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Active Shooter Update
Canine Tactical Operations: The Evolution of Training
In this video, Officer Sonia Mariona, the first woman in San Francisco's K9 unit, discusses the role of the K9 in tactical operations and how this role has evolved over the past 10 years.
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Responding to calls involving an active shooter can be one of the most dangerous situations officers will encounter. Training videos included here discuss protocol for response, the five phases of an active shooter, the active versus classic barricade suspect, and more.
Defensive Tactics
As an officer on the street, encountering volatile situations on a regular basis, you must be prepared to defend yourself physically or take control of a violent offender when necessary. The ability to subdue an attacker and prevent harm to yourself and citizens is a critical skill, and the techniques here will teach you to do just that, while also preventing unnecessary harm to the attacker themselves.
Narcotics Enforcement
Narcotics enforcement is a dangerous environment where officers must be on guard at all times. Discussion in this section covers everything from identifying the indicators of a drug lab and de-conflicting events, to recognizing the signs of drug impairment and more.
Officer Survival
Lessons learned from other agencies often serve as powerful examples in officer survival training. Debriefs of numerous high-risk calls that are featured here foster discussion in areas of leadership during combat situations, and making critical decisions while under intense pressure. Also discussed is preparation for these types of incidents.
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Limitations

There are some limitations to handheld biometric technology, including database limitations; storage, cost, and environmental restrictions; officer safety; and potential questions which must be considered by agency legal advisors. First and foremost, handheld biometric devices can only accomplish the benefits described earlier if they are linked to information in the appropriate databases. Furthermore, successful identification of an individual is contingent upon that person's information being included in the database(s) to which the device is linked.

While the technology is portable, devices possessing iris, facial, and fingerprint identification may be too bulky for the duty belt. As noted earlier, however, they may be stored within a police vehicle. This compromises the mobility of the device. Mobility is also hindered by weather conditions. While the handheld technology can withstand high levels of humidity, its use is not recommended under precipitation (rain, sleet, snow, etc.).

Handheld biometric readers are expensive. Styles that only employ fingerprint technology are less costly and range from under one hundred dollars to several hundred dollars. For the biometric technology which includes fingerprint, iris, and facial recognition, the cost could reach several thousand dollars per device, not including database access costs. For instance, the Pinal County Sheriff's Department recently purchased 75 readers which function as an iPhone attachment. The cost per unit is approximately $2,900 and the software package for the devices will cost another $9,000. The grand total will be higher, however, when the readers are implemented, as the reoccurring data package plan needed to support the technology costs approximately $40 per device. The Pinal County Sheriff's Office is waiting on the

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8:30am – 9:30am Public Safety Antennas: How To Choose Antennas For Existing & Near Future Technology
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Antioch (California) police are now one of about 850 agencies in the US using a new high-tech tool for their 911 center: TipSoft, technology which allows citizens to text message police rather than having to dial the emergency number. Tipsters remain totally anonymous thanks to message routing, in which a server receives the text message and then sends it to the appropriate agency using a different ID tag. Tipsters can still choose to provide their name and contact information within the text.

Citizens can also opt into a reverse 911 function which allows them to receive text or E-mail messages from police. Real-time neighborhood crime data and other information can be sent with this service, as well as used to help police focus their efforts.

In Antioch, the new service is expected to help reduce the burden on a short staffed police force by encouraging actionable intelligence without need for report-taking. The agency paid for TipSoft from asset forfeiture funds.

For more information, visit **www.tipsoft.com**.

implementation plan before a time frame can be set for training. Training will add additional costs and may be time-consuming, but it is vital to proper implementation. Smaller agencies or those on limited budgets may find the devices cost-prohibitive. However, agencies wishing to purchase the handheld biometric devices could possibly seek external funding and grants.

Depending on the police agency, department duty shifts often range between eight and 12 hours. Since handheld biometric readers are operable for up to eight hours after charging, this could limit their use. Charging takes approximately three hours and can be completed through the charging port in a vehicle. For the reasons described above, use of the device may be limited on foot patrol, mounted patrol, and other patrol settings outside of a vehicle.

Officer Safety

Another limitation is that the subject must be within close range, depending on the feature employed (fingerprinting, iris scan, or facial scan), for effective use. For instance, iris scan and fingerprinting require direct contact of the subject's face and fingers to the device. The officer must be in close proximity (three to six feet) with the subject for facial recognition to function properly, thereby posing a potential risk for officer safety.

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In addition, both the subject and user must be stationary. When the device is calculating identification and the officer reads the results, he (or she) must remain still and focused on the device which takes the officer's attention away from the subject. In an article listing the top risk factors for officer fatalities, not keeping eyes on a suspect's hands at all times and taking a position in close proximity to the subject are noted within the top ten. It is therefore recommended that the device be used only when the suspect is in custody and properly detained. Backup may be required, thereby removing another officer from his/her assigned area. Use of the device may be limited in cases when backup is not available.

Legal and Privacy Concerns

Questions to be considered by police legal advisors might include: Do handheld biometric devices pose a privacy concern? Is evidence from handheld devices admissible in court? Does the use of biometric recognition technology constitute a search under the Fourth Amendment?

Handheld biometric technology may raise privacy concerns.Though biometric technology retrieves information in public settings, the information that this technology accesses may be considered private. Biometric readers can access identification information which is more revealing than a simple ID card. For example, readers scan biometric personal physical identifiers which are unique to the individual, potentially linking information within a database which can provide the driving record, criminal record, and Social Security number of the subject.

Circle 4105 for More Information

Does Charging at an Armed Offender Raise Your Chances of Being Killed?

Conventional training teaches officers that, within five to six feet of a suspect who begins to draw a gun, it's better to charge him and deflect the shot than it is to stand ground and try to draw. That's because, within such a short range, the officer wouldn't have time to draw before being shot.

Nonetheless, most fatally shot officers are killed within five feet of a suspect. That led one researcher to question whether lunging is really the safest course of action to take. Using time and motion data from the Force Science Institute, he found that even the fastest lunge would still end in the officer being shot before ever reaching the suspect and that the shorter the distance to the suspect – three feet or less – the better the chance of survival.

Researchers said that training scenarios don't adequately prepare officers for street encounters because they are already anticipating a deadly force encounter and do not need the time to interpret a suspect's actions.

What they suggest, instead of charging forward at close distances, is charging sideways – for the officer to move laterally as rapidly as possible to get out of the line of fire and also to become a moving target. Researchers anticipate that this would give officers more time to react by drawing and firing their own weapon from a different position, while forcing the suspect to reorient. Although the officer may still be shot, a lateral movement reduces the chance of being shot multiple times.

Research is ongoing as to whether moving forward or sideways within three feet is more effective. Researchers also promote better threat assessment and observation skills to help officers better attune themselves to preattack behavioral cues. And, trainers need to build in speed work as well as technique and balancing officers' confidence with street realities.

For more, see **http://www.policeone.com/close-quarters-combat/articles/5326680-Charging-the-bullet-A-scientific-evaluation-of-our-tactics**.

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Another question for consideration is the admissibility in court of information from handheld biometric devices. However, the handheld biometric technology arguably would satisfy both the *Frye* and *Daubert* Standards. *Frye* ruled that expert testimony is admissible only when it has achieved a general acceptance in the relevant scientific community. The *Daubert* standard allows the court to determine admissibility for scientific or expert testimony based on how it has been evaluated in the scientific community, requiring that "the evidence must be based on reliable principles and scientific methods and the expert witness must be shown to have applied the scientific principles properly." The *Daubert* standard, used in federal courts and most state jurisdictions, followed *Frye* on the assessment and admissibility of scientific expert testimony on technology. Biometric readers would likely meet all *Daubert* criteria: The technique has been tested; has been subjected to peer review and publication; potential error rates are decreasing; there are existing standards of maintenance and control; and the device has attracted widespread acceptance within the relevant scientific community.

Because privacy issues are a concern, it is important to raise the question as to whether the use of biometric readers constitutes a search under the Fourth Amendment. The Fourth Amendment indicates that a search occurs when a reasonable expectation of privacy, as recognized by society, is infringed by agents or employees of the government.

In *United States v. Dionisio*, the Supreme Court ruled that an individual's expectation of privacy does not include characteristics which are constantly exposed to the public and easily under surveillance. Videos and pictures retrieved from surveillance recordings are often used for identification purposes. In this sense, the biometric reader is no different than

proximate surveillance. But, is information retrievable by handheld biometric recognition private? Currently, the answer remains unclear.

In *Hiibel v. Sixth Judicial District*, the Supreme Court ruled against a defendant who was arrested after refusing to provide officers his name when asked (there was a law in the defendant's jurisdiction requiring such identification to be provided upon request by the police, when the police had reasonable suspicion of illegal activity). The Court rejected the claim that such requirements for providing identification violated either the Fourth or Fifth Amendments.

In *Brown v. Texas*, however, the Supreme Court ruled that persons may not be detained for the purpose of determining identification when reasonable suspicion is lacking. According to *Brown*, reasonable suspicion is required to detain a suspect for his/her identification. These decisions may have implications for the use of handheld biometric scanners. At the same time, it remains to be determined whether use of the scanners requires detention of the subject.

The Supreme Court recently decided a case on warrantless GPS tracking of automobiles and its Fourth Amendment implications. The issue may be of interest for biometrics, in terms of implications for the electronic measurement of publicly observable information. The Supreme Court held that such tracking constitutes a search and, therefore, cannot be conducted without a warrant. The Court's ruling appeared, however, to hinge specifically upon the definition of a vehicle as an "effect" entitled to Fourth Amendment protection and its implications for acquisition of biometric data remain to be seen.

While the Supreme Court remains the ultimate arbiter of privacy jurisprudence, biometric privacy cases have not specifically been addressed. For this reason, users of new technologies should give careful consideration to developing appropriate guidelines for their use, as noted below.

Recommendations and Conclusions

Agencies currently using or planning to use handheld biometric devices should carefully research the technical capabilities and requirements for the devices and then develop clear policies for their application. At a minimum, these policies should specify the purposes or situations in which the devices should be deployed and any guidelines or restrictions on their use.

Additionally, training is strongly recommended for officers to ensure the most effective use of these devices. The Institute of Electrical and Electronics Engineers (IEEE) Certified Biometrics Professional (CBP) program offers courses which set a baseline of biometric knowledge for those who plan to use the technology. Some agencies choose to adopt these courses as certification standards. Those who successfully complete the examination following the courses have demonstrated a level of proficiency in the field and are expected to use biometric technology in a competent and effective manner. However, these standards have not been accepted nationwide and, at the time of this writing, serve only as a guideline.

While the limitations have been noted, handheld biometric technology holds potential value for law enforcement agencies, including the facilitation of quick and valid identifications when personal information is lacking or suspicious. Handheld biometric technology is a recent development and, like all new technology, is inevitably prone to practical and legal review. However, its potential for law enforcement, as defined by its range of applications, appears extensive and promising. The handheld biometric reader does not replace effective law enforcement; it complements it. Biometric readers have evolved as yet another investigative tool for law enforcement officers.

(References for this article are available upon request.)

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Recovering Graffiti Related Costs Through Monitoring

Graffiti Tracker, a software-based program which helps law enforcement photograph and log graffiti, has helped several municipalities in the San Diego area to recoup four times more cleanup costs from taggers in 2011 than in 2010. Restitution rose from $170,000 in 2010 to more than $783,000 the following year.

The reason for the sharp increase is that Graffiti Tracker was put in place across San Diego County, as opposed to being deployed in just the select few communities which had been using it. The program helps agencies share information countywide, so that when one department logs an incident, all others see it. This is important because taggers rarely stick to one location. Tracking their graffiti makes it easier to tie specific incidents – and, thus, costs – to them directly. In 2011, one tagger in particular was linked to graffiti which cost more than $100,000 to clean up; he was ordered to pay half of it in restitution.

Graffiti Tracker enables city workers to use GPS enabled cameras to photograph tags, then send the images to a database which law enforcement can access. This streamlines graffiti investigations, saving detectives significant time; no longer do they need to try to match incidents through single reports.

A report from the San Diego Association of Governments which maintains crime statistics also showed that only about one quarter of the graffiti was gang related. About $16 million per year is spent to clean up graffiti, 82,482 incidents of which occurred in 2011.

For more information, visit **http://graffititracker.net**.

U.S. Night Vision's iPHONE® NIGHT VISION ADAPTER

Bill Siuru, Ph.D., PE

With this device, law enforcement professionals can now record – and then transmit – high resolution Gen Three images or video over any 4G network in any light condition.

Today, night vision equipment and smartphones are two key technologies in law enforcement's crime fighting aresenal. Recently, U.S. Night Vision Corp. combined these two technologies into its new iPhone Night Vision Adapter. Basically, the adapter allows the capturing of images from night vision and other devices so they can be manipulated and shared just like any other images taken by a smartphone. These images can be also be viewed in real time on the smartphone screen.

Simple

The concept is quite simple. U.S. Night Vision has developed an adaptor which attaches to a device such as a AN/PVS-14 Monocular Night Vision Device. The smartphone is slid into the adapter so the phone's camera lens lines up with the eyepiece. The smartphone can now transmit high resolution Generation Three images or video over a 4G network to other police officers or to a command post. Also, the images are now digitized so they can be used like any photo or video taken by a high resolution digital camera, such as being included in reports, magnified for analysis, or projected during court procedures. The adapter also allows crystal clear audio recording, digital zoom, GPS tagging, and time/date stamping.

Initially marketed as the "iPhone 4, 4S Night Vision Adapter" for the AN/PVS-14, currently the most widely used night vision device in the world, other adapters are currently available for other U.S. Night Vision devices. These include the AN/PVS-7, AN/PVS-15 and AN/PVS-18, as well as the M24 and M18 FLIR (Forward Looking InfraRed devices). Other applications are under development, including daytime optics and laser range finders. Besides the Apple iPhone 4 and 4S, it's also available for the iPad® 3. Plans for the near future will include the Samsung Galaxy S™ II, Skyrocket™ and Motorola Droid Bionic.

Affordable

Besides being simple to use, adapters are relatively inexpensive with retail prices starting at $199. All adapters are hard anodized in Xylan®, the strongest and most durable finish available today. To protect the device, an industrialgrade protective graphic wrap and backer is included. Not only does this further dampen and protect the device, it adds a matte nonreflective finish for use at night. U.S. Night Vision is also manufacturing a line of hard use cases called American Armor to protect the night vision and optics adapter. The American Armor case offers superior protection with a lightweight futuristic and covert look, and

This iPhone® 4, 4S Night Vision Adapter allows the iPhone to capture and transmit images from an AN/PVS-14 night vision device.

A high resolution night vision image can be viewed in real time on the iPad® 3 screen.

features a 360º clocking adapter for use with current night vision and infrared devices. Another valuable addition is new attachments for the cases which will allow for Molle and helmet mounting options for daytime camera mission recording.

About the Author: Bill Siuru is a retired USAF colonel. He has a Ph.D. in mechanical engineering from Arizona State University. His military assignments included teaching engineering at West Point, commander of the research laboratory at the U.S. Air Force Academy and Director of Engineering at Wright-Patterson AFB. For the past 35 years, he has been writing about automotive, aviation and technology subjects.

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Ready Positions

Dave Spaulding

Are you really "ready"?

As I have continued my training journey, I have noted an interesting new trend: instructors establishing their own definition for words or phrases to bolster their lesson plan. There is nothing wrong with this, but I prefer to know the dictionary definition for any word and I have found these are usually succinct and to the point. If a writer or trainer offers a definition which is a paragraph long, they probably made it up. Why I call this to your attention is the varied number of "ready" positions which are currently taught by schools and instructors around the globe. Every school/program I have attended has a signature ready position – or at least one which was heavily favored – and this position was the foundation on which the shooting doctrine was based. The problem? *No single ready position will work for all potential threat situations*. And, is the phrase, "ready position," the correct terminology for what we are trying to do?

Off-duty:

Questions that cops get over and over:

"Do you guys really like doughnuts?"

"Can I see your gun?"

"How many miles above the speed limit can I go?"

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Defined

My old, worn-out, dog-eared version of *Webster's Dictionary* defines the word "ready" as "prepared to act or be used immediately, available at once." The word "prepare" is defined as "to make ready, to put together, to make one's self ready." While "confrontation" is defined as "to face defiantly, boldly face threats and deal with, engage." I proceed here with great reluctance as I am a firm believer in simplicity in training, but I believe that clarity should be established in what is being attempted as students are taught to shoot from *confrontation, ready and preparatory positions* alike. While they may appear similar in how the hands and arms position the handgun, their use is really not the same and it is advisable that students of the combative handgun understand the difference.

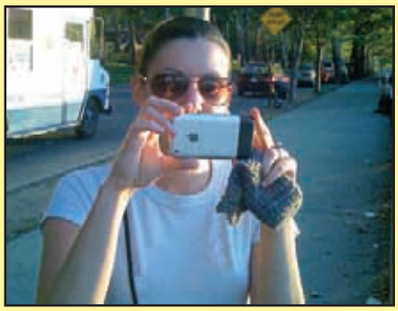
As a general rule, "ready" is thought to be the position the gun is in anytime it is out of the holster and not being fired, but is this really the case? Doesn't it depend on the situation at hand, on what is happening at the moment? Shouldn't the gun's muzzle be oriented based on what is transpiring then and there, not based on square range doctrine? If the gun is out for no reason, why? If it is hanging uselessly at one's side, then why is it not in the holster? Any combative handgun should be in one of the following stages: the holster for potential use, preparation for combat, ready for combat, confrontation/engagement (in combat)...anything else (except practice, of course) is either unnecessary, superfluous or unsafe.

Time for Action

Confrontation: While being involved in an actual gunfight is certainly confrontation, it is possible to be in a human-to-human confrontation and not be shooting. It is called *threat management* and occurs when an officer uses the handgun to

NEWS

Prepare to Be Videotaped, but Watch Videographers' Hands



The Seventh Circuit Court of Appeals recently held in favor of the American Civil Liberties Union which had asked a Cook County court to block enforcement of Illinois' wiretap law in instances where civilians record police without officer consent. In other words, police cannot stop civilians from using audio/video equipment to record their on duty actions; if they do, civilians have the right to sue under the First Amendment.

Cases such as *Robinson v. Fetterman* (2005), *Smith v. City of Cumming* (2000), *Gilles v. Davis* (2005), and *Glik v. Cunniffe* (2011) all suggest that video recording is protected activity because it's communicative in nature. Officers should therefore assume that anything they do will be recorded.

On the other hand, the officer safety implications of being recorded are clear. The videographer may be actively interfering with police, or the recording could reveal officer or victim identities. More immediately, the recording device itself may be cause for concern. Many people use smartphones to capture video and, in their haste to record a stop, may not realize that reaching into their pocket to retrieve it looks threatening to police. This is of particular concern in New York, where the state's Civil Liberties Union has created a "Stop and Frisk Watch" Android app to facilitate recordings.

In cases where officers are concerned for operational security, they should interrupt recording and seek prosecutorial advice.

The Guard Position

Chest Ready

compel a certain action from a suspect. Maybe a suspect has been caught in the act of a violent crime or a situation has deteriorated and a suspect is going for/drawing a weapon and the service sidearm is pointed in the direction of the suspect as a visual warning of "if you do not immediately stop what you are doing, I will shoot you." Verbal commands would be of no use without the threat of the gun's muzzle pointed in the suspect's direction. The suspect is being "covered" and little movement of the gun is needed to fire an accurate shot.

Two Main Positions

The two primary confrontation positions are the Guard position, also known as Low Ready, and the Chest Ready position. The Guard position is described as the gun being held out from the body in a firing grip with the muzzle low enough to see the suspect's hands, usually at ground level off their feet. To fire an accurate shot at 15 to 20 feet, the gun is raised a mere 12 inches or so – muzzle movement is minimal with a wide field of view. The Guard position is probably the best threat management position as it offers the greatest level of intimidation and it requires very little movement to get a fatal shot. Unfortunately, the gun gets heavy quickly, resulting in it being dropped towards the ground where substantial motion is needed to lift the pistol and then stop it on target.

Chest Ready has the gun back against the chest, but with the muzzle pointed straight ahead which would seem to violate the "never point the gun at anything you are not willing to destroy" rule unless a threat is present. Pointing the gun straight ahead just to be fast is an unwise practice. That said, Chest Ready is very fast on target and is an excellent confrontation position in close confines, but should not be thought of as a routine ready position due to muzzle orientation. Chest Ready is fine on the competition range, but hazardous on the street.

Ready: Prepared to act is the goal when in a ready position. At the same time, the muzzle needs to be in a position in which nonhostiles cannot be shot inadvertently. Movement to a confrontation/shooting position should be minimal as little time to react will be available. To maximize this minimal motion, both hands should be on the gun in a shooting position. If a threat is seen, the gun is directed to the target and the trigger depressed. Compressed Low Ready keeps the gun's muzzle off target, but also relieves the weight experienced when the gun is fully extended. Compressed Low Ready is best described as the elbows resting on the rib cage with the forearms parallel with the ground. Due to locked wrists, the pistol's muzzle is oriented towards the ground away from nonhostiles. To get the gun on target, merely straighten the elbows which will bring the gun to the eye/target line.

High Ready is nothing new – first being introduced in the mid-1980s by shotgun shooter/trainer John Satterwhite. Here, the elbows are in tight to the torso, but the gun's muzzle is pointed upwards with the front sight just below the eye/target line. To shoot, merely push the gun towards the target, dropping the front sight into the rear notch as they line up on target. The gun can go from High Ready to Compressed Low Ready by bending the elbows. High Ready is a great position when moving quickly and is preferred by military Special Mission Units. The obvious downside is that anything under the hands/arms is blocked from view.

Position Sul

Preparatory: These are situations in which the gun is out, but a threat is not immediate. In preparatory situations, you might be moving in and around nonhostiles or other officers and you need to have the gun pointed at the ground in such a way that it would be difficult to point it dangerously at another person. Such situations would include getting into position for an entry, moving around others at a crisis event or debussing from a vehicle. Position Sul is the most popular preparatory position and, when used in situations for which it was created, is extremely effective.

Position Sul is described as having the support hand flat on the chest with the thumb pointed up. The shooting hand is wrapped around the gun's grip with the thumb flagged. The middle knuckle on the middle finger of the gun hand rests on the same knuckle of the support hand. The thumbs engage each other point to point and these two contacts act as pivot points when the gun is moved from Sul to a two-hand shooting grip. In reality, the support hand "folds" on to the open space on the grip as the gun moves forward.

Times

All of these positions are useful and the serious student of combative pistol craft will be familiar with all of them. Admittedly, I believe

Compressed Low Ready

High Ready

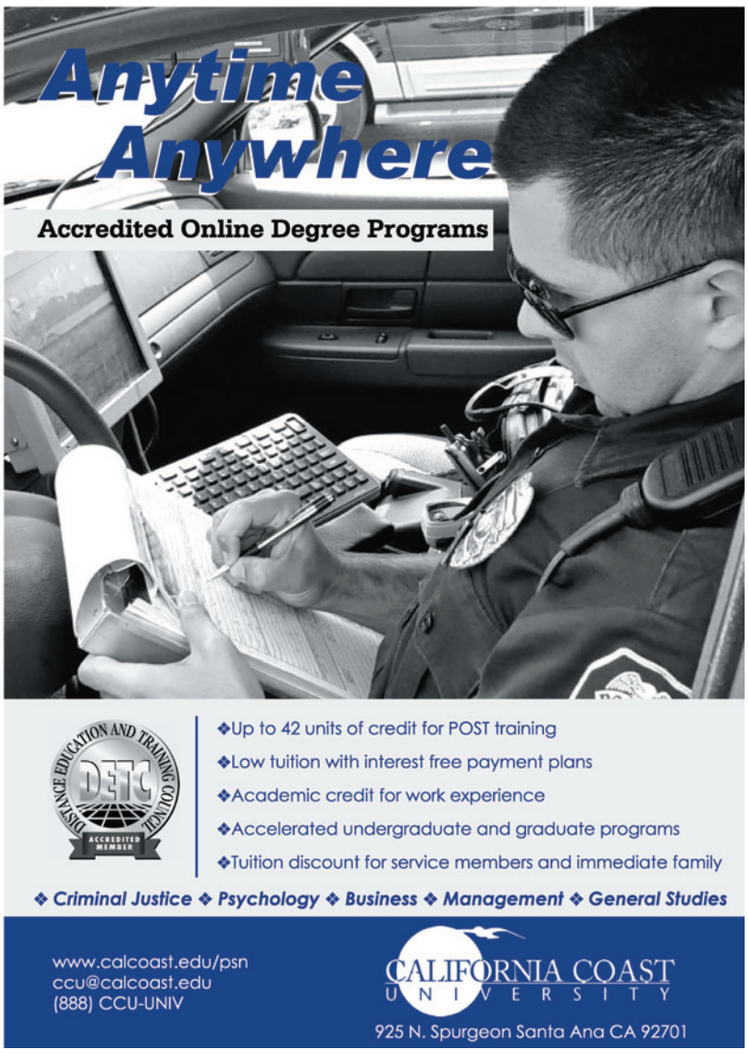
Position Sul

Compressed Low Ready and High Ready will handle the vast majority of threat situations and should be the "go to" default positions when the situation faced is tenuous and not clear. In reality, all are fast on target with the Guard Position being the fastest and Sul the slowest. To test this, I shot one round at an eight inch steel plate at 20 feet three times using a Ruger® SR9®. Here are the results in tenths of a second. Keep in mind that there is a delay of approximately .25 seconds as the mind processes the beep of the electronic timer:

Guard:	.61	.57	.52
Chest:	.66	.66	.63
Compressed Low Ready:	.65	.59	.61
High Ready:	.64	.62	.61
Sul:	.88	.84	.82

Considering a blink of an eye is measured at approximately .32 seconds, the difference between these positions is minimal. However, there is no way to know what will be "too slow" in a fight, so it is wise to have the gun oriented in such a way that response time to the threat is minimal. Does this change how combative pistol craft should be taught? Hell, no, it is merely a call to teach in such a way to help officers be truly ready in the street and not just safe on the range.

About the Author: Dave Spaulding is a 34 year veteran of law enforcement and security operations. He retired with the rank of lieutenant and worked in all facets of law enforcement, including communications, corrections, patrol, court security, investigations, undercover operations, SWAT and training. He is the author of over 1,000 articles which have appeared in law enforcement and firearms publications and is the author of two best-selling books. He was named the 2010 Law Enforcement Trainer of the Year by ILEETA and Law Officer *magazine.*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Driver Distraction in Police Vehicles

Bill Siuru, Ph.D., PE

Research has revealed a number of recommendations which agencies can implement to reduce the risk of distracted driving.

As drivers become more "connected," accidents attributed to "focusing on anything other than driving while driving" is becoming a major concern. Some experts say that driving while using a cell phone is equivalent to driving with a blood alcohol level of .08 and texting is 23 times more risky than just talking on a cell phone. The feds, as well as states, are now addressing the issue of distracted driving (see sidebar).

What about distractions for law enforcement officers who often spend the majority of their shift in police cars chock-full of electronic and communications equipment used while driving, frequently under stressful high-speed conditions? Distractions have come a long way since two-way radios started appearing in police cars in the 1950s. Mobile Data Terminals (MDTs) came in the 1980s and now an estimated 75% of police cars have Mobile Data Computers (MDCs). Many police cars also have GPS equipment, video cameras, speed radars and lasers, suspect detainment cages, and gun racks which have to be accommodated in today's smaller police cars. Additional distractions include personal smartphones, tablets and iPod®s officers use while on duty.

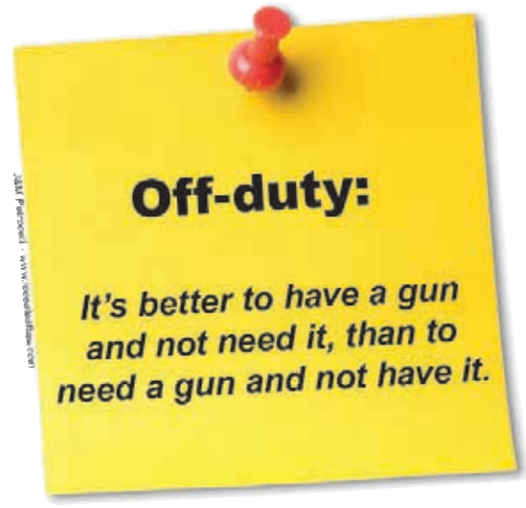
Research

While distracted driving by civilians is quite well understood, there is a lack of scientific studies of distracted driving in law enforcement. Thus, public safety administration graduate students at St. Mary's University of Minnesota conducted research at the request of the League of Minnesota Cities Insurance Trust to understand the causes of distracted driving and make recommendations on ways to reduce the risks.

The students (most have law enforcement experience) analyzed police involved vehicle crashes in Minnesota from 2006 through 2010. They looked at 378 police involved vehicle crashes to determine whether there is a relationship between distracted driving and police auto liability claims. If relationships exist, what are the contributing factors? From this, they made recommendations to be implemented by law enforcement agencies to reduce the risk.

The research showed distracted driving can be attributed to about 14% of all claims, but accounted for 17% of all costs. The average cost per claim was about $3000; however, distracted driving claims cost an average of $6,000. Nearly 70% of claims and 58% of costs were for crashes which occurred when an officer was driving in a nonemergency response. However, when lights and/or sirens were activated, the average cost of a claim was over five times more costly. Most of the distracted driver claims were related to electronic devices in the car, with one half of these incidents related to the use of the MDC.

While distracted driving appears to be a factor in only a small number of crashes, they are the most expensive. The study did not include the human cost of accidents and the impact of the loss of a trained officer, especially for a small department. As noted by the researchers, distracted driving may be underreported because of the culture of law enforcement and the potential for disciplinary actions since a distracted driving incident may be viewed as inattention, carelessness, or inability to perform the job.



Reducing Risk

Awareness and training are essential to reduce the risks of distracted driving incidents. Training programs should include the recognition of the increased risk associated with the use of technology while driving. If feasible, training should include a driving exercise while multitasking with electronic devices so that officers can see firsthand that their ability to drive is greatly decreased when they are distracted.

The study recommends that agencies should take a look at how equipment is being installed inside their patrol cars. Simple rearrangement of equipment can have a significant effect on providing an optimal viewing area outside of the vehicle so officers can see road hazards.

For example, many crashes occurred at intersections where officers indicated they had difficulty seeing vehicles approaching from the right. The researchers believe the placement of a video camera (often mounted to the right side of the rearview mirror) could be a strong contributor to these crashes. This greatly diminishes the visibility of cars approaching from the right. Also, MDCs can be mounted in several different positions, some of which limit the field of view of the driver.

Even though crashes while backing up account for only 26% of the crashes and only 12% of crash costs, the study recommends that police cars be equipped with a clear plastic "cage" which is the barrier between the officer and the perp in the backseat. Unlike waffle type steel cages, or half steel and half plastic cages, clear ones provide minimal restriction to rearward visibility.

Ergonomics

While not part of the study's recommendations, the ergonomics of the equipment being installed should be carefully examined. Are buttons and dials easily identified and used – ideally, without taking one's eyes off the road or, at most, requiring a momentary glance? Are the displays easy to read and interpret the information? Symbols may be better than text. Can displays be read in sunlight conditions? Wherever possible, use voice activated controls.

Which of these is more likely to result in a driver distraction accident?

This location for the video camera can reduce the ability to see oncoming traffic from the right.

Feds Propose Solutions

According to the National Highway Traffic Safety Administration (NHTSA), of all police reported crashes in 2010, about 17% involved driver distraction. In about five percent of these 899,000 crashes, the driver was distracted when using a portable cell phone or one which was part of the vehicle. Another three percent resulted when the driver was distracted when adjusting or using an integrated device or control like a radio or a navigation system.

Talking on a cell phone and texting while driving is already being addressed. Currently, 35 states and the District of Columbia ban texting while driving. Nine states and the District of Columbia ban handheld cell phones except for emergencies. Thirty states ban all cell phone use for beginning drivers. Currently, no state bans the use of hands-free devices.

The NHTSA recently issued proposed guidelines – now voluntary – covering certain original equipment which require the driver to look at a device, hand manipulate a control and watch for visual feedback. These engage the driver's eyes or hands for more than a very limited time while driving. It applies to communications, entertainment, information gathering, navigation devices and other functions not required for vehicle safety.

The guidelines includes recommendations to reduce complexity and task length required by the device; limit operation to one hand while leaving the other hand on the steering wheel; limit off-road glances to no more than two seconds; limit unnecessary visual information in the driver's field of view; and limit the amount of manual inputs required.

The proposed guidelines also recommend disabling devices like visual/manual Internet browsing; text messaging; social media browsing; navigation system entries; ten digit phone dialing; and a display of over 30 text characters unrelated to the driving task. Devices would not be disabled if they can only be used by passengers and cannot reasonably be accessed or seen by the driver, or unless the vehicle is stopped and the transmission is in park.

The NHTSA is also considering future Phase II proposed guidelines for devices or systems which are not built into the vehicle, but are brought into the vehicle and used while driving. This would include aftermarket and portable navigation systems, smartphones, electronic tablets and pads, and other mobile communications devices. A third set of proposed guidelines in Phase III may address voice activated controls to further minimize distraction in factory installed, aftermarket, and portable devices.

Finally, departments must implement policies and procedures which emphasize the importance of the safe use of electronic devices and communications gear while allowing for officer discretion.

The International Association of Chiefs of Police (IACP) recommends, "All law enforcement agencies must adopt policies to prohibit the use of handheld communications and portable electronic devices not necessary to the performance of their official duties while a vehicle is in motion." At a minimum, this means officers are prohibited from using cell phones for personal use while driving and texting is definitely a no-no.

About the Author: Bill Siuru is a retired USAF colonel. He has a Ph.D. in mechanical engineering from Arizona State University. His military assignments included teaching engineering at West Point, commander of the research laboratory at the U.S. Air Force Academy and Director of Engineering at Wright-Patterson AFB. For the past 35 years, he has been writing about automotive, aviation and technology subjects.

Circle 4116 for More Information

James L. McClinton, Ph.D

DOESN'T ANYONE SAY, "CUT THE CHEESE," ANYMORE?...

In Ellisville, Mississippi, a judge assigned a man bail of only $20,000, but, in doing so, he was conflicted as to whether or not he should believe that the accused is actually a terrorist. The man is suspected of planting a bomb at Jones County Junior College. Investigators recently told a local television station that the evidence against him included a note on toilet paper on which he had written, in effect, "I passed a bomb in the library." However, no bomb was found and a relative of the man told the judge that the man often speaks of breaking wind as "passing a bomb." The case is currently pending. *(If "passing a bomb" simply meant he was actually only "breaking wind," then the charges are nothing more than a lot of "hot air"!)*

Feelings of guilt eventually do wear off... A man was charged in Cynthiana, Kentucky, with stealing electronic equipment from the home of a friend. Police said that the man admitted the break-in, but said he felt guilty the next day and returned the items. However, the man then admitted breaking back into the home two days after that and restealing the items. *(If I did the math right, that's two counts of theft and three counts of breaking and entering.)*

"Is that a meth lab in your pocket or are ya just glad to see me?... In Okmulgee, Oklahoma, a police officer pulled over a man for speeding. While writing the ticket, the officer noticed an unusual chemical smell and asked the driver to step out of the vehicle. The driver apparently considered that a bad idea and, instead, decided to make a run for it. But, the man's ability to flee was severely hampered by what was inside his pants. Somehow, he had managed to conceal a "shake and bake" meth lab in his trousers. The officer had no trouble catching up with the suspect and, when he did, the bottle burst open, spilling the dangerous chemicals all over the man's private parts. Fortunately for him, it did not explode or catch fire, but he was placed under arrest. *(Does the damage to his "private parts" mean he won't be passing on his business to his children?)*

"Thank you for your purchase. Now, please allow me to show you how much we appreciate your business by placing you under arrest!"... In Michigan, a Traverse City police detective went to a local gas station to show clerks a surveillance video image of someone who had been accused of stealing a woman's credit card the previous week. Incredibly, the man the detective was looking for was buying a pack of cigarettes right before his eyes. A captain who leads the detective bureau said a chance encounter like this is rare, but welcome. "The odds are definitely against this happening. ...on the exact day and time he's in there, the suspect is buying a pack of cigarettes," he told a Traverse City newspaper. The 51-year-old suspect was arrested. *(I'm still a little confused as to how a male could pretend to be the female owner of the stolen credit card?!?)*

These new "apps" are a great way to meet people, especially motivated police officers!... One of the largest methamphetamine busts in U.S. history was recently made by police in Palo Alto, California. The officers used the popular Find-My-iPad® app to solve their crime. Someone at a drug house had stolen the iPad and police turned on the owner's global positioning "app" which directed them to an apartment complex in Santa Clara County. Almost 800 pounds of meth was confiscated with a street value of about $35 million. The father of the iPad owner said, "They have $35 million and they can't go out and buy an iPad?" *(The father made the common mistake of thinking that people like this actually know how to think rationally!)*

But, only on the second Tuesday of every week, during months with "R" in them and which occur during every other leap year!... There is a municipal street sign planted in front of Lakewood Elementary School in White Lake, Michigan. The sign, which has been aired in a TV news program in Detroit, is causing a lot of confusion amongst drivers. The posted speed limit drops to 25 mph on "school days only," but just from "6:49-7:15 a.m., 7:52-8:22 a.m., 8:37-9:07 a.m., 2:03-2:33 p.m., 3:04-3:34 p.m. [and] 3:59-4:29 p.m." *(Is this a "sign of the times" or a harbinger of ultimate stupidity?)*

Here's a new twist on an old Latin phrase: Caveat venditor, "Let the seller beware!"... In Hollywood, Florida, officials have come up with a brilliant way to get rid of the signs vendors place in public medians. This practice is illegal, but the offenders must be caught in the act in order to be charged. The mayor said, "It occurred to me that they want us to call, so we're going to call, and keep calling, until their heads are spinning." The city is using its "robocall" system to call numbers on the advertisements up to 20 times a day. The recorded message tells the advertisers that their signs were illegally placed and that, in order to stop the calls, they need to report to the court, receive a citation, and file paperwork reporting that the signs were removed. The mayor says that after just one day, "we've already heard from multiple people who want the calls to stop and as quickly as possible." *(Since the tactic doesn't work on offenders who use call blockers, I think they should simply disable the posted numbers.)*

Actually, he was "walking strangely" because it helped him receive a better digital signal... At an appliance store in Eagan, Minnesota, a 21-year-old man was stopped by police because he appeared to be "walking strangely" in the parking lot. But, after a cursory search, the man was placed under arrest after the officers discovered he had placed a 19 inch flat screen television in his pants, as well as the remote control, power cords and stand. *(Hey, maybe he was trying to disguise himself as "Spongebob.")*

New Technology

New Mobile Forensics Solution

Cellebrite recently announced the launch of the **UFED Touch**, a high performance solution for investigators to extract and decode digital evidence from mobile devices, including smartphones, legacy phones, portable GPS devices (e.g., TomTom® and Garmin™) and handheld tablets such as the Apple® iPad® and Galaxy Tab™. With an exclusive compact form factor and touch screen, the **UFED Touch** is designed for speed, usability and portability in the field. It uses logical and physical extraction methods to support more than 7,900 profiles for mobile devices, including BlackBerry®; Apple iOS; Android operating systems; and smartphones from Samsung, Motorola, Microsoft®, Palm and Nokia.

The **UFED Touch** is available in two versions: the UFED Touch Logical for logical data and password extraction; and the UFED Touch Ultimate for in-depth, physical, logical, file system and password data extraction. It is also available in standard or ruggedized versions for work in the lab

Circle 4117 for More Information

New Console for the Ford Police Interceptor Sedan

From RAM Mounting Systems, a **console** for the Ford Police Interceptor sedan features a no leg kit or top plate, shaving almost 15 pounds in weight compared to its predecessor. Custom fit for the Interceptor and available as a complete kit or as separate components, the **RAM Tough-Box™ Console** can be fit with custom faceplates, cup holders, storage trays, and more.

Circle 4118 for More Information

New Duffel Bag

The Maxpedition Bomber™ Load-Out Duffel has a spacious two-way gusset which allows for a variety of ways to organize the duffel's internal spaces. Available in black and khaki-foliage, the discreet, clean **Bomber** exterior has an eye pleasing cylindrical profile, giving the illusion from the outside of carrying much less than it actually does.

Circle 4119 for More Information

New Lockout Kit

The **Delta Force™ Lockout Kit,** the newest from Next Generation Tool Company, combines the following tools: a 58" three-piece Reach-It™ Tool; the Inflatable Wedge™; and the Rhino™ Pry Wedge. The **kit** comes in a durable canvas case which is now available at a special introductory price.

Circle 4120 for More Information

New Key Ring

The Maxpedition **Tritium™ Key Ring** is an excellent way to organize keys and other small items and easily deploy them using two side released buckles for easy access. The heavy-duty nylon webbing ensures an additional level of toughness and security. The **Tritium Key Ring** is available in black, OD green, khaki and foliage.

Circle 4121 for More Information

New Trunk Tray

Havis recently announced a new **Full Width Trunk Tray** for the 2013 Ford Interceptor Sedan. This **Full Width Trunk Tray** provides a large (36.25" wide x 19.25" deep) equipment mounting surface. The tray mounting platform is easy to remove for bench top equipment preinstallation. It offers 20 inch heavy-duty ball bearing slides with a lock in/lock out feature

Circle 4122 for More Information

New Toiletry Bag

The Maxpedition **Aftermath™ Compact Toiletry Bag** is versatile, professional looking, and packs a lot of utility into one compact design. The padded main compartment is full of internal organizational options and it contains a clear interior window perfect for a small mirror, along with a large dual zipper clamshell opening. The **Aftermath** comes with additional side pockets, internal dividers, modular webbing for further attachments, a concealable hang hook, and a large exterior grab handle for easy transport.

Circle 4123 for More Information

New Push Bumper

Go Rhino! Products has introduced a new **Push Bumper for the 2013 Ford Interceptor Utility** for superior grille and bumper protection. Fully welded one-piece construction provides optimal strength and the crossplate is predrilled for easy mounting of auxiliary lighting or additional equipment. No drilling or cutting or notching of the bumper fascia is required for installation. Options include wraparounds which offer additional protection from deer and other road hazards.

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4030	4031	4032	4033	4034	4035	4036	4037	4038	4039
4040	4041	4042	4043	4044	4045	4046	4047	4048	4049
4050	4051	4052	4053	4054	4055	4056	4057	4058	4059
4060	4061	4062	4063	4064	4065	4066	4067	4068	4069
4070	4071	4072	4073	4074	4075	4076	4077	4078	4079
4080	4081	4082	4083	4084	4085	4086	4087	4088	4089
4090	4091	4092	4093	4094	4095	4096	4097	4098	4099
4100	4101	4102	4103	4104	4105	4106	4107	4108	4109
4110	4111	4112	4113	4114	4115	4116	4117	4118	4119
4120	4121	4122	4123	4124	4125	4126	4127	4128	4129
4130	4131	4132	4133	4134	4135	4136	4137	4138	4139
4140	4141	4142	4143	4144	4145	4146	4147	4148	4149
4150	4151	4152	4153	4154	4155	4156	4157	4158	4159
4160	4161	4162	4163	4164	4165	4166	4167	4168	4169
4170	4171	4172	4173	4174	4175	4176	4177	4178	4179
4180	4181	4182	4183	4184	4185	4186	4187	4188	4189
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4042...American Military University	20	4017...Morrow Brothers Ford, Inc.	8
4059...Back Defense Systems, LLC	30	4046...Mounting Solutions Plus	23
4068...Baker Ballistics, LLC	37	4079...NRA Law Enforcement Div.	43
4038...BatteryJunction.com	17	4040...NRA 2012 NPSC	18
4075...Battleware Technologies, Inc.	41	4108...NTOA Conference	55
4045...Black Hills Ammunition	22	4069...Ocean Systems	37
4002...BLACKHAWK!	5	4052...OPSGEAR®, Inc.	24
4043...BrennekeUSA	21	4056...Original S.W.A.T. Footwear	27
4053...Brownells	25	4018...Patrol Witness™	9
4073...CAA Command Arms	40	4044...Pearce Grip, Inc.	21
4082...CME Electronics	45	4066...Point Blank Enterprises	34-35
4113...California Coast University	61	4104...Police Fleet Expo	52
4097...Cellebrite USA	47	4103...PoliceOne Academy	51
4081...Copeland Engineering, Inc.	45	4106...Pugs Cabinet Systems	54
4100...Copeland Engineering, Inc.	49	4114...Qualification Targets	61
4047...DeSantis Gunhide	23	4001...RAM Mounting Systems	3
4063...ECM Universe	33	4023...Setina Mfg. Co., Inc.	13
4074...Ear Phone Connection, Inc.	41	4060...Signal 88 Security Group	30
4070...Farber Specialty Vehicles, Inc.	38	4019...Smith & Warren	10
4020...Fire Hooks Unlimited, Inc.	10	4041...Strong Leather Co.	19
4102...Global Training Acad., Inc.	50	4078...TSSi	42
4062...Go Rhino! Products	32	4127...T3 Motion	Cover 4
4105...Havis, Inc.	53	4107...TacView, Inc.	54
4024...Humane Restraint Co., Inc.	14	4077...Tremco Police Products	42
4101...ITT Enidine	50	4058...TRU-SPEC by Atlanco	29
4071...Instant Armor, Inc.	38	4111...U.S. Night Vision Corp.	58
4099...JAMAR Technologies, Inc.	49	4025...University of Phoenix	15
4072...Lawmen Supply Co.	39	4051...XS Sight Systems	24
4000...Lenco Armored Vehicles	Cover 2	4048...Ziegel Engineering	23
4061...Liberty Uniform Mfg. Co.	31		

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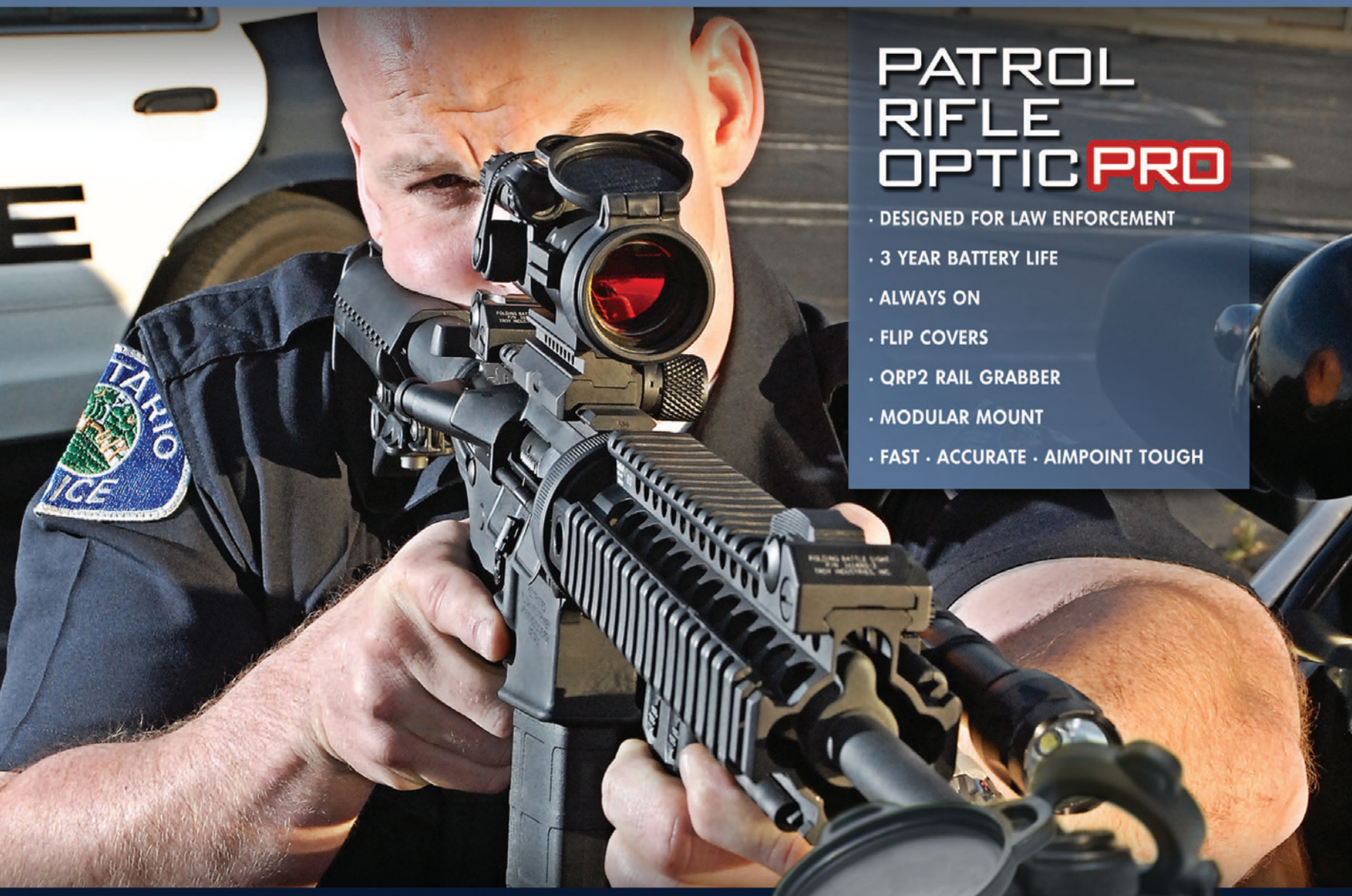

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